

Annual Report of the City of Plainfield New Jersey



1912
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City of Plainfield
New Jersey



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OFFICERS OF THE CITY OF PLAINFIELD 1912

MAYOR

GEORGE W. V. MOY

MEMBERS OF THE COMMON COUNCIL

RALPH I. TOLLES, President

First Ward

RALPH I. TOLLES

WILLIAM L. GLOAK

Second Ward

FRANK L. HOLT

GEORGE S. CLAY

Third Ward

FRED ENDRESS

FREDERIC E. MYGATT

DUNCAN W. TAYLOR

CHARLES C. RANDOLPH

Fourth Ward

JOHN E. DUNN

PATRICK J. REVILLE

WILLIAM W. WILSON

CHAIRMEN OF COMMITTEES

FREDERIC E. MYGATT.....	Finance
WILLIAM L. GLOAK.....	Streets and Sewers
DUNCAN W. TAYLOR.....	Fire and Buildings
GEORGE S. CLAY.....	Public Affairs
CHARLES C. RANDOLPH.....	Police
JOHN E. DUNN.....	Street Lighting
FRED ENDRESS.....	Alms
WILLIAM W. WILSON.....	License
FRANK L. HOLT.....	Laws and Ordinances
PATRICK J. REVILLE.....	Auditing

OFFICERS

JAS. T. MacMURRAY.....	City Clerk
GEO. B. WEAN.....	Stenographer
WM. F. ARNOLD.....	City Treasurer
WM. R. TOWNSEND.....	Collector
WM. M. STILLMAN.....	Corporation Counsel
A. J. GAVETT.....	City Surveyor and Street Commissioner
WALTER L. HETFIELD.....	Judge of District Court
WM. G. DE MEZA.....	City Judge
PATRICK S. KIELY.....	Chief of Police
NORMAN W. CURRIE, M.D.....	City Physician
T. O. DOANE.....	Chief Fire Department and Building Inspector
HORACE G. ADAMS.....	Clerk of District Court
HENRY L. DeFOREST.....	Overseer of Poor

BOARD OF ASSESSORS

CLARENCE B. LA RUE.....	First Ward
ASA F. RANDOLPH.....	Second Ward
GEORGE E. STILLMAN.....	Third Ward
HARRY C. RUNYON.....	Fourth Ward
FRANK H. DUNHAM.....	Clerk

BOARD OF HEALTH

WM. H. MURRAY, M.D.....	President
STEPHEN H. VOORHEES.....	Treasurer
THOMAS S. DAVIS, M.D.....	Secretary
WM. M. WHERRY, JR.	
ARTHUR E. FORCE	
JOHN O'BRIEN, JR.....	Supervising Health Officer
MISS H. O. MATTISON.....	Acting Health Officer
MISS H. O. MATTISON.....	Clerk and Registrar Vital Statistics
WILLIAM ADDIS, SR.....	Inspector
G. THORNTON LONGBOTHUM, M.D.....	Bacteriologist
JOHN H. CARMAN, M.D.....	Medical Inspector
N. J. RANDOLPH CHANDLER.....	Inspector
HERBERT A. STEIN.....	Inspector
ELIZABETH ROSENSEN.....	Stenographer

BOARD OF EDUCATION—OFFICERS

WILLIAM S. TYLER.....	President
FLOYD T. WOODHULL.....	Vice-President
J. HERBERT CASE.....	Secretary
FRANK B. CLARK.....	Clerk

BOARD OF EDUCATION—MEMBERS

JAMES F. BUCKLE	B. VAN D. HEDGES, M.D.
J. HERBERT CASE	WILLIAM S. TYLER
• FLOYD T. WOODHULL	
HENRY M. MAXSON.....	Superintendent of Schools

PLAINFIELD PUBLIC LIBRARY AND READING ROOM

ALEXANDER GILBERT.....	President
LEWIS V. F. RANDOLPH.....	Vice-President
J. HERBERT CASE.....	Treasurer
WILLIAM M. STILLMAN.....	Secretary
LEONARD WALDO	
FRANK L. HOLT	
WILLIAM H. LARRABEE	
CORNELIUS B. TYLER	
GROVE HINMAN	
FLORENCE M. BOWMAN.....	Librarian

SHADE TREE COMMISSION

MILES ROBERTS.....	President
PHILIP S. SUFFERN	
ANDREW J. GAVETT.....	Secretary

PLAYGROUND COMMISSION

GEORGE P. MELLICK.....	President
HARRY W. MARSHALL.....	Treasurer
LINDSEY BEST	
CHAS. B. MORSE	
GEORGE L. BABCOCK	
HERBERT PARKER.....	Secretary

CHAIRMEN OF COMMITTEES FOR 1913

CHARLES C. RANDOLPH.....	Finance Committee
FREDERIC E. MYGATT.....	Streets and Sewers
FRED ENDRESS.....	Fire and Buildings
WILLIAM L. GLOAK.....	Public Affairs
LEIGHTON CALKINS.....	Police
PATRICK J. REVILLE.....	Street Lighting
WILLIAM W. WILSON.....	Alms
CORNELIUS VAN HERWERDEN.....	License
FRANCIS J. BLATZ.....	Laws and Ordinances
ABIEL D. EDGAR.....	Auditing
FREDERIC E. MYGATT.....	Special Water

MAYOR'S MESSAGE

Plainfield, New Jersey, January 1, 1913.

To the Honorable Members of the Common Council of the City of Plainfield, New Jersey:

In his first annual message delivered to the Common Council, Mayor Stewart confined himself to a discussion of five important problems awaiting solution, which he considers most vital at this time. They are municipal control of the water supply, sewage system, municipal collection and disposal of garbage and ashes, consolidation of the borough and the city, and general improvements.

The message follows:

"It seems to be the custom for the incoming Mayor to send a message to the Common Council at this time, setting forth, at more or less length, such questions affecting the city's interest as he considers important. I, therefore, take this opportunity of calling certain questions to your attention and of extending to you my heartiest congratulations and best wishes for the new year, and of pledging to you my support and assistance, in so far as lies within my power, in the consideration of such public questions as may come before us. There are questions, which I should like to take up with you more informally, and some questions of great importance which, in my opinion, it would not be for the best interest of the public to discuss at length in a public document. I will, therefore, briefly refer to certain questions and, with your permission, reserve to myself the privilege of sending additional communications to you in the course of the year, either in regard to these or other public questions.

"The reports of the heads of the respective departments of the city government, have been so admirably prepared, that I shall simply refer you to them for detailed information concerning these departments. There are questions affecting some of the departments of the city, which I should like to take up with you in committee, after your honorable body has convened and your committees have been appointed.

"The questions to which I wish to refer at this time are:

"First—The municipal ownership or control of a water supply.

"Second—The sewage system.

"Third—A municipal system for the collection and disposal of garbage and ashes.

"Fourth—General improvements.

"Fifth—Consolidation of the cities of Plainfield and North Plainfield.

First—Water Supply

"This question has been agitating the public for some years, but we seem to have made little progress in solving the problem. Meanwhile, our city is growing rapidly and increasing in population. The citizens wish to be assured of a permanent supply of pure water, not only for domestic purposes, but for various uses by the city and for our protection in case of a conflagration. The complaint is made that there is not sufficient pressure to successfully combat

large fires, not to mention an extensive conflagration. If this is true, we face a danger which menaces both our city and the city of North Plainfield, and the result would be equally disastrous to both cities, whether the conflagration should start in North Plainfield and spread over into our city or vice versa. The tendency at the present time, with the great and rapidly increasing populations and areas of all cities in the zone within convenient reach of New York and Philadelphia, is to make greatly increased demands on the water supply. This supply is unquestionably limited, and we have recently seen the great expense and inconvenience which some of our neighboring cities have been put to for their water. It may be that we are approaching a water famine. It is reported that the water level beneath our city has been lowered many feet, and it is believed that the surface water is more or less contaminated.

"The city of Plainfield owes its prestige, among other things, to the fact that it has had an abundant supply of pure water. If the supply becomes contaminated or insufficient in quantity, and we do not make provision for an adequate supply of pure water, we shall not only suffer from the necessity of using water of inferior quality, but there will unquestionably be a depreciation in the value of real estate, and the city will be unfavorably affected in other respects as well. It would seem, therefore, the part of wisdom, as well as our duty, to take up this question of a water supply immediately, no matter how irksome it may be to us to discuss subjects, which we may consider threadbare, and come to a definite and positive conclusion in regard to this most important subject.

"There is, I take it, no disposition on the part of our citizens to get something for nothing. They are prepared to pay a fair price for such water as they consume. Naturally, they desire to make the best terms possible and to obtain water at the lowest rate possible, but the question of a slight increase or decrease in the cost of water to the individual consumer, is an important consideration compared with those which I have outlined above, and with which we are all familiar.

"A suit is now pending against the present water company and the Supreme Court of this State has handed down an opinion adverse to the city's contention. This case has not yet been appealed and, therefore, has not the stamp of final approval of the Court of Errors and Appeals—the highest court of this State. If an appeal is immediately taken, I am informed that the question, in so far as the present litigation is concerned, should be decided some time in February or March. It would seem inappropriate, in view of the pending legal proceedings, to discuss other branches of this matter.

Second—Sewage System

"It is a matter of opinion whether the sewage facilities or the water supply is more important. They are both absolutely essential to the well-being of our city. Distinct progress has been made in the solution of this problem, and, barring unforeseen accidents or legal difficulties, this question is in a fair way of solution for the present at least, and, as we are all familiar with the situation, it would seem unnecessary to dwell further upon this matter at this time.

Third—Collection and Disposal of Garbage and Ashes

"In glancing over some of the recent messages of my predecessors, I find that this question has been repeatedly presented to your

honorable body. The Board of Health of this city, for the past eleven years, have been urging us to give this matter thoughtful attention. We must realize that the Board of Health is a legally constituted body, whose duty it is to see that all means are taken to preserve the general health and sanitary condition of the city. The high character and attainments of the men who now compose and have heretofore composed it, render their opinions of weight and entitled to the most careful consideration. The best interests of the city as a whole must guide us in our consideration of these matters. The poor man, or man in humble circumstances, and his family, are the ones who are suffering most under present conditions. We know that the rotting garbage heap, covered with flies is the source from which our young children are particularly liable to contract diseases, and it would seem incomprehensible that we should neglect matters, which lie directly at our door, and which are a constant menace to the health of the city. I shall not elaborate this side of the question. It is obvious. And there must be strong reasons, if reasons there are, why nothing has been done in this direction.

"A possible objection, which has been raised to a municipal system for the collection and disposal of garbage and ashes, is the alleged cost. Another is the fear that we might deprive some of our citizens of their means of livelihood. I think that both of the objections stated can be met. The average citizen would probably pay less than he is now paying for inferior service. The cost of removal under the present system bears unequally upon the different classes of our citizens. The poor man must either pay this tax or have his garbage rot in his backyard with the menace to himself, his family and his neighbors to which I have referred above. The increase in his taxes would be almost inappreciable under a proper system of municipal collection, and his doctor's bills would probably also be less. As to the alleged destruction of the means of livelihood of members of our community, I see no reason why those, who are competent, should not be provided for under a municipal system. The city would have the advantage of their labor and experience, and would have the right to hold them to strict discipline and to sanitary methods of operation. I shall not attempt at this time to discuss the various systems which other cities have successfully employed to remedy similar conditions, and I am not an advocate of any particular plan. That is a question to be decided after mature thought and careful investigation. But I have no doubt whatever, that under a proper system and strict regulation, the city would find a way out of its present difficulties, and if the experience of some cities is a guide, it might be a source of income, if not of profit, to the city.

Fourth—General Improvements

"We have learned from the sad experience of some of our neighboring cities, the results of ill-advised and over-ambitious plans for municipal improvements, and we should, at all times, realize that improvements, if they are to be permanent and of lasting advantage, must be gradual and commensurate with the ability of the taxpayer to bear the burden. But the taxpayer is a business man, and a successful business man realizes that in order to get anything out of his business, he must put something into it. And we must realize that if we are going to get added benefits from our city, we shall have to put something into the city. It is not right to expect indi-

vidual citizens to bear all the burden of such investments, because all the citizens equally would reap the advantage. The average citizen does not ask for favors, and is willing to bear his fair share of anything which will both promote the public good and increase the value of his property. I feel confident, however, that private individuals will be found willing to assist in excess of their proportion in any plan looking toward the common advantage and improvement of our city.

"The streets, in parts of the residential section of our city, with their beautiful trees, are a source of pride to our citizens, but the condition of the road-bed, pavements and crossings is not what it should be in other parts of the city. It may be that the condition is all that can be expected considering the amount of money which we have expended upon them. But their condition is unsatisfactory, not only to the citizens of those sections, but, I believe, to the Street Commissioner and his assistants also. We should have broad thoroughfares of sufficient width to handle the increasing traffic in the business sections of our city. The increase in the values of land in our business section will make any delay in attending to this important matter increasingly expensive. I am informed that the cost of widening certain streets has increased a hundred per cent. in a few years and will be proportionately even more expensive as time goes on. Some of us remember the outcry that was raised when Park avenue was widened, but everyone now commends the foresight and sagacity of the men who carried through that great public improvement.

"This brings us quite naturally to the question of our lights. The lighting of the city is not satisfactory and we should give it prompt attention. It would only seem reasonable that the business section should receive consideration, in view of the high valuations and the amount of taxes which is levied upon business properties. The individual property owners have done something to remedy this condition, and it may be that some plan could be devised of co-operation between the city and the property owners to remedy present conditions.

"We feel justly proud of our school system. We are under deep obligation to the members of the Board of Education for the attention which they have given to maintaining a high standard at all times. Our public school buildings are models of their kind and have cost the city a very large amount of money. In view of the facilities which they afford during the periods of the day when they are not in use, it would seem desirable if it could be arranged to have the auditoriums of these buildings used for civic purposes not directly connected with strictly educational matters. Other cities have adopted a more liberal policy in the use of these buildings and I would respectfully suggest that our authorities take this matter under careful consideration with a view to meeting the wishes of the public in this respect.

"There is a condition existing in our city today which should receive prompt attention. I refer to the lack of provision for the care of persons suffering from contagious diseases. The Board of Health is very solicitous about this matter. Persons suffering from certain communicable diseases, such as scarlet fever, diphtheria and others, to which it is not necessary to refer here, should be isolated, so as to prevent the spread of contagion, and there should be suitable

quarters where they can be given appropriate special treatment. We have no such place in the city at the present time. Muhlenberg Hospital has a small pavilion but it is totally inadequate to accommodate these cases, and the resources of the hospital from private subscriptions are not sufficient to provide for them. The expense of caring for patients suffering from some of the diseases to which I have referred, is large. It costs not infrequently from one hundred dollars to six hundred dollars per patient, to suitably provide for a severe diphtheria case, including night and day nurses, antitoxine and all other necessary expenses. A severe epidemic of any one of the more dangerous diseases should cost the city more in money and valuable lives than the cost necessary to provide means to successfully combat it. A statute has recently been passed, which, it may be, will provide the remedy. This law authorizes a city to appropriate a certain amount of money for the construction of such a building or to arrange with a private hospital to care for such cases. Some of our neighboring cities, rather than go to the expense of building and maintaining a hospital for the care of contagious diseases, have arranged with private institutions to undertake this work under municipal supervision. Other things being equal, it would seem to follow that an institution with an appropriate organization already in existence, could handle such a plant cheaper than it could be run by the city.

Fifth—Consolidation of the Cities of Plainfield and North Plainfield

"The question of the consolidation of the City of Plainfield with the Borough of North Plainfield has been mooted from time to time. We are experiencing now the inconvenience of having two municipal governments interested in problems which affect us as a single community, such as the water supply, sewage, fire protection, police, schools, parks, lighting and hospitals. A united city could lay out broad connecting avenues and a park system along the line of Tier's pond and the brook. The land should be acquired now, before there is too great an increase in its value and such a park system would be desirable, not only from the point of view of health and the beautifying of the city as a whole, but also because of the great increase in value, which would accrue to adjacent property. After the acquisition of the land, a certain amount could be spent from year to year in improvements, so that the burden upon the taxpayer would not be too great at any one time.

"I am aware that there has been opposition to consolidation, both in Plainfield and North Plainfield. But every year that this matter is delayed is detrimental to both cities. There is no disposition, I am sure, on the part of either city, to force such a consolidation. It must be done, if it is to be done, with the cordial co-operation and support of the citizens of both Plainfield and North Plainfield, and if either city does not believe that it would be advantageous, it will unquestionably decide against such a plan, but small considerations in a matter of this importance should be swept aside and the general good of the community should be the paramount consideration."

PERCY H. STEWART,

Mayor.

TREASURER'S REPORT OF THE CITY OF PLAINFIELD, N. J., FOR THE YEAR 1912

GENERAL FUND

January 1, 1912—Balance on Hand:

General Fund ...	\$72,349.74
Contingent Fund, 1911	18,746.99
High School Special	1,917.31
Sewer Maintenance	1,729.99
Water Commission	11,287.87
	<hr/> \$106,031.90

RECEIPTS

State and County Taxes...	\$138,602.56
State and County Taxes, Con- tingent Fund, 1911	11,178.94
City and Poll Taxes.....	126,777.09
City and Poll Taxes, Contingent Fund	10,135.23
Contingent Fund, 1911	4,885.67
Contingent Fund, 1912	11,691.15
Taxes Prior to 1911	312.02
Five Per Cent. (5%) Gross Earnings, Plainfield Street Railway	3,654.42
Less amount paid on Franchise Tax, 1911.	

Franchise Taxes

Western Union Tele- graph Co.	\$.03
Postal Telegraph & Cable Co.	1.93
New York Tele- phone Co.	1,275.41
Plainfield-Union Water Co.	1,933.26
Public Service Elec- tric Co.	2,190.25
Public Service Gas Co.	1,854.66
	<hr/> \$ 7,255.54

Licenses

Liquor	\$9,898.50
Hack, Peddler, Show, etc.	2,879.50
Dogs	1,677.50
New Street Sewer, 1911	50.00
	<hr/> \$ 14,505.50
Flagging and Curbing.....	453.08

Interest and Costs

From Taxes	\$3,523.17
From Bank	2,234.29
From Flagging	18.31
From School Bonds.	1,400.00
From Street Bonds.. ..	192.50
	<hr/> \$ 7,368.27
Railroad and Canal Tax....	3,181.90
McDowell Street Assessment	\$ 340.00
Astor Place As- sessment	203.53
	<hr/> \$ 543.53

DISBURSEMENTS

Streets

Repair and recon- struction of streets	\$ 15,525.51
General Street Cleaning and opening of gut- ters	9,012.04
Street Sprinkling..	3,786.82
Dust Prevention..	9,939.00
Crosswalks	418.65
Culverts — con- struction, repair and cleaning ...	1,785.48
Storm Sewers and Catch Basins— construction, re- pair and clean- ing	1,754.59
Cleaning Brooks and Ditches	899.76
Removing Snow from Streets ...	1,287.42
Removing tree branches (blown off)	70.59
Steam Roller—Re- pairs and Sup- plies	222.63
Office Assistant ..	360.00
Assistants and In- spectors	1,108.55
Blacksmithing ...	152.55
Telephone	30.60
Tools and Supplies	441.85
City Yards and Sheds	432.13
Street Monuments	11.86
Automobile	355.86
Repair of Scraper.	16.62
Paving Brick	143.25
Street Signs and Carriage Hire ..	16.85
Oiling and Tarring Apparatus	71.73
House Numbering	117.25
Work done for Companies and Individuals, and materials furnish- ed	213.76
	<hr/> \$ 48,175.35

GENERAL FUND—(continued)

Fines and Fees		Sewers	
From City Judge....	\$1,318.14	Operation of Dis-	
From Board of		posal Works, care	
Health	934.50	of Septic Tanks,	
From District Court.	1,328.97	Contact Beds and	
	\$ 3,581.61	Screen	\$ 1,565.33
Streets		Laboratory and	
Public Service Rail-		Telephone	73.51
way, Electric and		Repair of Build-	
Gas Companies,		ings	58.05
and the New York		Manager and Chem-	
Telephone Co., for		ist	1,422.52
removal of		Test Borings, Sur-	
snow and repair		veys, Advertis-	
of streets	\$4,792.26	ing, etc., for ex-	
Sale of stone, pipe,		tension	47.86
barrels, etc.	32.60	Tools and Supplies	180.66
Use of steam roller,		Repairing, Clean-	
scarifier, pump,		ing and Flush-	
etc., by contrac-		ing Sewers	1,590.90
tors, and others...	271.87	Inspecting con-	
Repair of walks,		struction of sewer	
ditches, gutters,		connections..	100.90
and oiling	100.42	Pumping Stations	1,959.82
Money due laborers		Sewer Record Maps	90.70
not claimed	9.78	Automobile	43.81
	\$ 5,206.93	Engineer in	
Sewers		charge	1,200.00
Sewer Connection		Cleaning Brook	
Permits	\$ 234.00	and Repairing	
Sale of pipe and		Roadways	63.52
casting	10.67		\$ 8,397.58
	\$ 244.67		
Police		Police	
Sale of Horse	\$ 100.00	Salaries	\$ 27,447.05
Call Box No. 55....	100.00	Special Police ...	2.52
Special	17.50	Automobile and	
Badges	15.00	Carriage Hire ..	118.50
	\$ 232.50	Bicycle Repairs ..	219.75
Trees		Civil Engineer ...	6.00
Sale of wood, spraying		Department Ex-	
and trimming for private own-		penses	400.52
ers	80.50	Fuel	236.31
Tax Releases	\$ 227.60	Gamewell System.	211.74
Tax Searches	273.45	Headquarters Sup-	
	\$ 501.05	plies	71.17
Snow and Ice	774.33	Lighting	27.85
Tax Title Property Sold....	267.02	Maintenance of	
Transfers, Fire De-		Horse	191.67
partment	\$17,000.00	Maintenance of	
Transfers, Poor		Prisoners	49.35
Department	5,000.00	Photographing ...	26.93
	\$ 22,000.00	Physician	150.00
		Plainfield - Union	
		Water Co.	37.82
		Plumbing	15.43
		Police Equipments	76.15
		Purchase of Horse	300.00
		Removal of Ashes	26.35
		Repairs at Head-	
		quarters	332.24
		Stationery	87.35
		Telephone	27.75
		Veterinary	6.00
		Clerical Assist-	
		ance	35.00
			\$ 30,103.45

GENERAL FUND—(continued)

Street Lighting	16,392.58
Tree Commission, Care City Park, Spraying Elms and Maples, Trimming, re- moving and cementing trees, etc.	2,772.00
Printing and Stationery	3,473.22
Rent	2,165.00
Board of Health	7,500.00

Salaries

City Clerk	1,200.00
Street Commis- sioner	1,800.00
City Treasurer ...	1,200.00
City Collector	2,250.00
Mayor	300.00
Custodian of School Moneys	550.00
City Judge	1,500.00
Stenographer	600.00
Janitor	540.00
Inspector of Build- ings	499.95
Counsel to the Cor- poration	2,000.00
Assessor, 1st Ward	400.00
Assessor, 2d Ward	400.00
Assessor, 3d Ward	400.00
Assessor, 4th Ward	400.00
Clerk to Build- ing Inspector....	125.00
Clerk, Board of Assessors and Collector	1,000.00
	<hr/> \$ 15,164.95
District Court	2,322.50
Snow and Ice	608.69
Flagging	612.00
Astor Place Opening.....	479.00
McDowell Street Opening..	837.61
Joint Sewer project	1,324.90
Water Commission	2,899.10
Legal Expenses	152.24
Care of City Dump.....	300.00
Miscellaneous Expenses ...	611.87
Auditors	1,800.00
Insurance	177.50
Legislative Bills	25.00
Killing and Catching Dogs..	292.00
Flagging, assessment can- celed	32.18
Street Macadamizing	1,525.89
G. A. R. Appropriation.....	100.00
Return Tax to A. V. Heely...	35.00
Care of City Maps.....	125.00
Dental Clinic	750.00
Care Town Clock	30.00
Hospital	2,317.00
Reporting Diseases	38.70
Indexing Ordinances	50.00
Reports, etc., Joint Sewer and Betterments	816.33
Sinking Fund Taxes	3,307.39

GENERAL FUND—(continued)

Interest	
Brick Paving Bonds	\$ 1,395.00
Fire House Bonds	675.00
School Bonds	13,335.00
Police Headquarters Bonds	1,012.50
Street Improvement Bonds	3,885.00
	<u>\$ 20,302.50</u>
Return of Tax to I. P. Brown	17.60
Bonds	
High School	\$ 4,000.00
Police Headquarters	1,000.00
	<u>\$ 5,000.00</u>
Division of Contingent Fund	
State School and County Tax	\$ 11,178.94
City and Polls ...	10,135.23
Fire Dept.	573.99
Library	119.21
Poor Fund	292.05
Sewer Bonds	100.07
Schools	1,233.17
	<u>\$ 23,632.66</u>
Appropriation to Poor Fund	200.00
License	
Pension Fund, Fire Dept.	\$ 225.00
Employment Bureau Fee	50.00
	<u>\$ 275.00</u>
State and County Taxes, 1912	138,568.82
Dog Tags	110.25
Election Expenses, re-count Second Ward	90.25
Transfers	
Fire Department .	\$ 24,500.00
Poor Fund	4,500.00
	<u>\$ 29,000.00</u>
Tax Collector's Office, Postage, etc.	310.96
Playground Commission ...	1,500.00
Balance	
General Fund	\$ 84,663.42
Contingent Fund, 1912	11,691.15
Water Commission.	8,388.77
	<u>\$104,743.34</u>
	<u>\$479,465.41</u>

\$479,465.41

\$479,465.41

SUMMARY—General Fund

Balance General Fund.....	\$ 84,663.42
Due from Fire Dept.....	7,500.00
Flagging and Curbing Assessment	1,028.00
Tax, 1912	59,092.58

\$152,284.00

Balance\$152,284.00

SINKING FUND ACCOUNTS**DARROW AVENUE SCHOOL****January 1, 1912—**

Cash on hand	\$ 1,778.27	Bonds of City of Plainfield bought	\$ 2,000.00
Taxes	950.00	Balance—Cash on hand.....	1,063.23
Interest	334.96		
	<u>\$3,063.23</u>		<u>\$3,063.23</u>

Bonds held in Sinking Fund \$9,000.00.

DARROW AVENUE SCHOOL FURNISHING**January 1, 1912—**

Cash on hand	\$ 1,107.18	Bonds of City of Plainfield bought	\$ 1,000.00
Taxes	525.00	Balance—Cash on hand.....	684.82
Interest	52.64		
	<u>\$ 1,684.82</u>		<u>\$ 1,684.82</u>

Bonds held in Sinking Fund \$1,000.00.

JEFFERSON AVENUE SCHOOL**January 1, 1912—**

Cash on hand	\$ 949.02	Bonds of City of Plainfield bought	\$ 1,000.00
Taxes	450.00	Balance—Cash on hand.....	447.00
Interest	47.98		
	<u>\$ 1,447.00</u>		<u>\$ 1,447.00</u>

Bonds held in Sinking Fund \$1,000.00.

EAST END FIRE HOUSE, NO. 4**January 1, 1912—**

Cash on hand	\$ 1,617.61	Bonds of City of Plainfield bought	\$ 3,000.00
Taxes	1,382.39	Balance—Cash on hand	180.40
Interest	180.40		
	<u>\$3,180.40</u>		<u>\$ 3,180.40</u>

Bonds held in Sinking Fund \$6,000.00.

Total Sinking Fund Bonds

held by the City\$ 17,000.00

FIRE DEPARTMENT**January 1, 1912—**

Balance on hand	\$ 2,411.46
Bank Interest	26.73
Horses, etc., sold	828.99
General Fund Transfer	24,500.00
Taxes, 1911	8,358.79
Contingent Fund, 1911	573.99
	<u>\$ 8,932.78</u>
Taxes, 1912	34,349.08
	<u>\$ 71,049.04</u>

Disbursements

Salaries	\$ 21,886.84
Repairs to Buildings	607.64
Repairs to Apparatus	969.43
Supplies	852.59
Keep and Shoeing of Horses	2,893.59
Veterinary	173.50
Rent of Lot	45.00
Rent of Horses and Automobiles	303.50
Laundry	247.70
Fuel	916.00
Care Fire Alarm System, Wire and 3 New Boxes....	3,092.70
Printing and Stationery....	30.95
Pension Fund	211.62
Incidentals	178.14
Exchange and re-building Chemical	3,750.00
Exchange Automobile for Chief	870.00
1000 Feet of Hose	900.00
Rubber Boots and Coats for Call Men	133.00
Small Equipments	52.00
Hydrant Rentals	5,625.00
Interest	612.04
	<u>\$ 44,351.24</u>
Repaid General Fund	17,000.00
Bills Payable	9,500.00
Balance on hand Dec. 31, 1912	197.80
	<u>\$ 71,049.04</u>

FIRE HOUSE NO. 4.**January 1, 1912—**

Balance	\$ 394.65
	<u>\$ 394.65</u>

Expenses	\$ 90.06
Balance	304.59
	<u>\$ 394.65</u>

SUMMARY

Assets	
Balance on hand, Fire.....	\$ 197.80
Uncollected Taxes, 1912.....	9,650.92
	<u>\$ 9,848.72</u>

Liabilities	
Due General Fund	\$ 7,500.00
Balance	2,348.72
	<u>\$ 9,848.72</u>

REAL ESTATE AND EQUIPMENTS VALUATIONS

Headquarters Real Estate	\$ 13,405.52
West Second Street, Real Estate	9,550.00
West Fourth Street, Real Estate	5,462.87
East End, No. 4, Real Estate and Equipment.....	14,695.41
	<u>\$ 43,113.80</u>
Equipment and Personal Property	33,255.00
Alarm System	11,735.00
	<u>\$ 88,103.80</u>

POOR FUND**January 1, 1912—**

Balance	\$	422.15	
Receipts			
Overseer	\$	450.21	
Appropriation from General Fund ..		200.00	
Transfer from General Fund		4,500.00	
Taxes, 1911 1,800.37			
Contingent Fund, 1911 292.05			
		<u>2,092.42</u>	
Taxes, 1912		5,835.22	
		<u>13,077.85</u>	
	\$	13,500.00	

Disbursements

Bills, 1911	\$	477.28	
City Alms House .	2,995.76		
Outdoor Relief ...	2,515.12		
Office Expenses ..	<u>2,074.53</u>		
		7,585.41	
Paid General Fund		5,000.00	
Balance on hand Dec. 31, 1912		437.31	
		<u>\$ 13,500.00</u>	

SUMMARY**Assets**

Balance on hand	\$	437.31	
Uncollected Taxes, 1912.....		1,664.78	
		<u>\$2,102.09</u>	

Liabilities

Balance	\$	2,102.09	
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LIBRARY FUND**January 1, 1912—**

Balance on hand	\$	6,833.68	
Receipts			
Taxes, 1911	\$	1,543.15	
Contingent Fund, 1911		119.21	
		<u>1,662.36</u>	
Taxes, 1912		6,994.11	
Interest on Balances		118.33	
Fees and Fines		147.31	
Building Fund		<u>2,543.07</u>	
	\$	18,298.86	

Disbursements

Expenses	\$	9,007.45	
Balance on hand Dec. 31, 1912		9,291.41	
		<u>\$18,298.86</u>	

SUMMARY**Assets**

Cash on hand	\$	9,291.41	
Uncollected Taxes, 1912		2,005.89	
		<u>\$ 11,297.30</u>	

Liabilities

Balance	\$	11,297.30	
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STREET IMPROVEMENTS—"MACADAM"**January 1, 1912—**

Balance, 1909...	\$ 1,408.81
Balance, 1910...	73.08
Balance, 1911...	7,380.06
	<u>\$ 8,861.95</u>

Receipts

Bonds sold	18,000.00
Premium on bonds	135.72
Assessments Collected	23,442.61
Interest on Balances	222.50

\$50,662.78**Disbursements**

Paid on Contracts.	\$ 2,152.26
Paid on Contracts.	5,782.81
Paid on Contracts.	12,822.09
	<u>\$ 20,757.16</u>
Bonds Paid	4,000.00
Balance on hand	25,905.62

\$50,662.78**BONDS OUTSTANDING**

Due, 1913	\$ 30,000.00
Due, 1914	34,000.00
Due, 1915	18,000.00

BRICK PAVEMENT ACCOUNT**January 1, 1912—**

Balance Construction acct...	\$ 330.07
Assessment Account	2,057.69
Assessments Collected	125.30

\$2,513.06

Bonds Retired	\$ 1,000.00
Balance on hand	1,513.06

\$ 2,513.06

Bonds Outstanding	\$ 30,000.00
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SEWER BOND AND INTEREST ACCOUNT**January 1, 1912—**

Balance	\$ 10,178.76
Bank Interest	216.98
Bond Taxes Collected	5,962.44
Sewer Interest taxes collected	9,978.40
Contingent Fund, 1911	100.07

\$ 26,436.65

Interest on Notes	\$ 1,159.10
Interest on Bonds	8,575.00
Bonds Retired	6,000.00
Balance on hand	10,702.55

\$ 26,436.65**SUMMARY****ASSETS****Balance**

Sewer Bond and Interest Account	\$ 10,702.55
Sewer Extension, 1910	1,952.87
Sewer Extension, 1912	286.80
Sewer Plant as carried on books	282,532.46
Sewer Extension, 1910	50,243.23
Sewer Extension, 1912	4,713.20
Uncollected Taxes	
Sewer Bonds, 1912	1,323.55
Sewer Interest, 1912	2,295.70

\$354,050.36**LIABILITIES****Bonds Outstanding**

1st Issue	\$ 60,000.00
2nd Issue	41,000.00
3rd Issue	58,000.00
4th Issue	43,000.00
	<u>\$202,000.00</u>
Bills Payable	55,500.00
Balance created by Bonds, etc., paid	74,000.00
Balance	22,550.36

\$354,050.36**SEWER EXTENSION****January 1, 1912—**

Balance	\$ 1,201.15
Martine	18.00
Bills Payable	21,000.00
Assessments Collected	1,696.10

\$ 23,915.25

Contracts	\$ 21,675.58
Balance on hand	2,239.67

\$23,915.25

Bills Payable	\$ 55,500.00
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To be paid by Bond Issue and Assessments.

BONDS OUTSTANDING—DECEMBER 31, 1912**SEWER BONDS OUTSTANDING**

First Issue of Sewer Bonds, 4%	\$124,000.00	
Amount paid	64,000.00	
		\$ 60,000.00
Second Issue of Sewer Bonds, 4%		41,000.00
Third Issue of Sewer Bonds, 4½%	\$ 68,000.00	
Amount paid	10,000.00	
		\$ 58,000.00
Fourth Issue of Sewer Bonds, 4%		43,000.00
Total Amount Sewer Bonds Outstanding	\$202,000.00	
		\$202,000.00

SCHOOL BONDS

First Issue of High School Bonds, 4%	\$123,000.00	
Amount paid	3,000.00	
		\$120,000.00
Second Issue H. S. Bonds, 4%		40,000.00
High School Furnishing Bonds, 4%	\$ 13,000.00	
Amount paid	5,000.00	
		\$ 8,000.00
Darrow Avenue School Sinking Fund Bonds		95,000.00
Darrow Avenue School Furnishing Sinking Fund Bonds		10,000.00
Jefferson Avenue School Sinking Fund Bonds		45,000.00
Total Amount of School Bonds	\$318,000.00	
		\$318,000.00
New Issue authorized by Council, to be issued in 1913	\$230,000.00	

STREET BONDS

Street Macadamizing Bonds	\$172,000.00	
Amount paid	90,000.00	
		\$ 82,000.00
Due in 1913	\$ 30,000.00	
Due in 1914	34,000.00	
Due in 1915	18,000.00	

BRICK PAVEMENT BONDS

Brick Pavement Bonds issued, 4½%	\$ 31,000.00	
Amount paid	1,000.00	
		\$30,000.00

POLICE HEADQUARTERS

Police Headquarters Bonds	\$ 25,500.00	
Amount paid	3,500.00	
		\$ 22,000.00

FIRE HOUSE NO. 4

Fire House No. 4 Issue of Sinking Fund Bonds, 4½%	15,000.00	
Total amount of Outstanding Bonds of the City	\$669,000.00	
Less Sinking Fund Bonds bought by the City	\$ 17,000.00	
Cash on hand	2,375.45	
		19,375.45
Bonded Debt Outstanding	\$649,624.55	

FLOATING DEBT

Sewer Extension in Anticipation of Bond Issue and Assessments	55,500.00	
		\$705,124.55

BOND TABLE

Year Due	Sewer	School	Police Head- quarters	Brick Pave- ment	Total
1913	\$2,000	\$6,000	\$1,000	\$2,000	\$11,000
1914	6,000	6,000	1,000	2,000	15,000
1915	6,000	6,000	1,000	2,000	15,000
1916	6,000	6,000	1,000	2,000	15,000
1917	6,000	6,000	1,500	2,000	15,500
1918	6,000	6,000	1,500	2,000	15,500
1919	6,000	6,000	1,500	3,000	16,500
1920	6,000	6,000	1,500	3,000	16,500
1921	6,000	5,000	1,500	3,000	15,500
1922	6,000	5,000	1,500	3,000	15,500
1923	6,000	11,000	1,500	3,000	21,500
1924	7,000	7,000	1,500	3,000	18,500
1925	7,000	6,000	1,500		14,500
1926	7,000	6,000	1,500		14,500
1927	7,000	6,000	1,500		14,500
1928	7,000	6,000	1,500		14,500
1929	7,000	6,000			13,000
1930	7,000	6,000			13,000
1931	7,000	6,000			13,000
1932	7,000	6,000			13,000
1933	7,000	6,000			13,000
1934	7,000	6,000			13,000
1935	8,000	6,000			14,000
1936	8,000	6,000			14,000
1937	8,000	7,000			15,000
1938	8,000	7,000			15,000
1939	8,000	6,000			14,000
1940	8,000				8,000
1941	8,000				8,000
1942	7,000				7,000
	<u>\$202,000</u>	<u>\$168,000</u>	<u>\$22,000</u>	<u>\$30,000</u>	<u>\$422,000</u>
Total of Serial Bonds					\$422,000.00
Sinking Fund due 1918, \$1,300, by tax annually, Fire House.....					15,000.00
Sinking Fund due 1924, \$525, by tax annually, Darrow Avenue School Furnishing					10,000.00
Sinking Fund due 1958, \$950, by tax annually, Darrow Avenue School					95,000.00
Sinking Fund due 1959, \$450, by tax annually, Jefferson School.....					45,000.00
					<u>\$587,000.00</u>
Street Improvement due 1913-1914-1915					82,000.00
					<u>\$669,000.00</u>
Less Sinking Fund on hand, Bonds and Cash					19,375.45
					<u>\$649,624.55</u>

VALUATION OF 1912, \$26,203,786.**RATE OF TAX, 1912, \$1.68****STATE SCHOOL AND COUNTY TAX FOR 1912, \$138,568.82.****RESPECTFULLY SUBMITTED,**

WILLIAM F. ARNOLD,
City Treasurer.

DATED PLAINFIELD, N. J., DEC. 31, 1912.

REPORT OF COMMITTEE ON SEWERS

Plainfield, N. J., Dec. 30, 1912.

To the Honorable Common Council of the City of Plainfield.

GENTLEMEN:—We submit herewith our annual report of work done and moneys received and expended during the year 1912.

Sewers and Appurtenances

The total length of sanitary sewers, including those constructed by private parties under city supervision, is now 50.87 miles. 234 connections were made with the sewers during the year. The total number of connections to the gravity sewers is now..... 3,700

Connections to sewers draining to the Randolph Road pumping station	219
Connections to sewers draining to Monroe Avenue pumping station	57
Connections to sewers draining to Huntington Avenue pumping station	4

Total number of connections..... 3,980

The Randolph Road station furnishes the compressed air for operating the small subsidiary station at Laramie Road, from which the sewage is pumped to the Randolph Road system. There are 14 connections on the Laramie Road system, which are counted with the connections draining to the Randolph Road pumping station.

The sewers included in contract of Charles A. Peterson, dated December 6, 1911, mainly in Laramie Park, were completed this year. The assessments for these sewers, together with those constructed by A. Colucci under two contracts, and by James A. Christie, also for cost of pumping machinery furnished by the Blaisdell Machinery Company, have been reported to the Common Council and have been referred back to the assessment Commissioners for revision.

A contract was let to Mobus Brothers of North Plainfield on November 11, 1912, for the construction of a new main sewer to provide for the present and future needs of the northeasterly section of the city, of Bonnie Burn Sanatorium and (in the near future) of Fanwood and Scotch Plains, as recommended by Messrs. Fuller and Harding, Consulting Engineers. Besides these main sewers, which are from 12 inches to 24 inches in diameter, sewers in the following streets are included in the contract:

East Front Street, from Leland Avenue to Emerson Avenue;
Woodbine Avenue,
St. Mary's Avenue, from Jackson Avenue to Hill Street;
East Seventh Street, from the present sewer to a point 2,200 feet east of Leland Avenue;
Henry Place,
Marshall Place,
Lorraine Avenue,
Leland Avenue, from Lorraine Avenue to Woodmere Place;
Randolph Road, from Park Avenue to Woodland Avenue.

Owing to the mild weather this winter, the contractors have been able to make a very encouraging start on their work.

Obstructions were removed from sixteen sewers, most of them

caused by roots, and repairs were made to a number of sewers and flush tanks.

There are several sewers in the easterly part of the city, which allow some infiltration of ground water when the latter is high, and which sewers it would be advisable to repair. It is probable that much of the trouble may be found in the house connections.

Pumping Stations

The pumping machinery has worked in a very satisfactory manner, excepting at the Monroe Avenue station, where one of the motors has given considerable trouble. The contractors are now at work upon the motor and will either repair it or furnish a new one. Five per cent. is still retained on the pumping machinery contract.

When the pumping machinery for the Monroe and Huntington Avenue stations was first installed, the contractors furnished two ten horse-power motors and two 10-inch by 8-inch air compressors for each station. These being found too large for economical operation, one motor and one compressor in each station was replaced by a three and one-half horse-power motor and a 7-inch by 5-inch air compressor, one large unit being left in at each station with the idea of using them in the future at the proposed pumping station in the west end of the city, which is planned to care for the sewage from the district west of Monroe and Clinton Avenues. There are already quite urgent demands that sewers be installed in this part of the city.

The trouble with the motor above referred to has increased the cost of operation to some extent. Considerable experimental work has been carried on at these stations by Assistant R. L. Bonham, which has resulted in more reliable and economical methods of operation.

A gasoline-engine-air-compressor, taken by the city for taxes a few years ago, has been overhauled at a cost of \$35.00, and is kept in reserve in case of accident to motors or air compressors at pumping stations.

Disposal Works

In the last report of this committee the changes proposed in the present disposal plant were described, and it was expected that the plans for this work would be promptly approved by the State Board of Health, and that construction work would have been started last spring. This plan was abandoned when the project for a joint trunk sewer and disposal works was taken up, and a special sewerage committee was appointed to take charge of matters pertaining to the new project.

The present works have been operated under the direction of Mr. R. S. Lanphear, Manager and Chemist. The operation has been carried on as in 1911, excepting that the effluent from two primary contact beds has been run on to one secondary bed, the secondary beds being used in rotation. The quality of the final effluent has deteriorated as compared with that of the past few years, on account of the increased clogging of the primary beds, and is such that the State Board of Health would probably object to draining the effluent into Green Brook next summer. The material in the upper beds is now being washed, and this will result in a much better final effluent, in addition to increasing the capacity of the plant.

The septic tanks have been operated in pairs during the entire

CITY OF PLAINFIELD, N. J.

Sewage Purification Works

R. S. Lanphear.
Manager and Chemist.

*Sewage Purification Works.
Monthly Summary of Results.*

+ Putrescible
o Non-putrescible
L.H. figures - undiluted
R.H. " diluted, 1-1

Year	Weir Reading	Septic Tanks in	Parts per Million										Bacteria									
			Suspended Matter.			Oxygen Consumed.			Nitrogen as Nitrates.		Nitrogen as Nitrates.		putrescibility		Millions per Cubic Centimeter.		Per Cent Removed.					
1912.	Million Gals.	Service (Nos.)	Screened Sewage	Septic Effl.	Primary Effl.	Sec'y Effl.	Screened Sewage	Septic Effl.	Primary Effl.	Sec'y Effl.	Primary Effl.	Sec'y Effl.	Primary Effl.	Sec'y Effl.	Screened Sewage	Septic Effl.	Primary Effl.	Sec'y Effl.	Filters Alone	Entire System		
Dec.	1.7†	1-2	183	65	29	13	99	60	27	10	0.0	2.7	0.04	0.14	+	0	1.95	1.53	0.81	0.56	63	71
Jan.	2.4	1-2	145	72	26	11	82	56	31	12	0.0	1.7	0.06	0.11	+	0	1.62	1.11	0.74	0.36	68	78
Feb.	2.25*	2-4	145	76	29	12	78	61	31	13	0.0	1.1	0.08	0.11	+	0	1.28	0.97	0.67	0.24	75	81
Mar.	2.15	1-2	139	70	32	13	87	62	35	14	0.1	1.7	0.10	0.16	+	0	1.71	0.93	0.79	0.32	66	81
Apr	1.85	1-2	158	55	26	21	87	57	31	14	0.1	2.3	0.07	0.22	+	0	2.32	2.04	1.36	0.76	63	67
May	1.8	1-3	161	51	25	19	80	51	33	15	0.0	1.4	0.02	0.35	+	0	2.52	1.92	1.18	0.88	54	65
June	1.8†	1-2	153	63	33	38	77	55	32	20	0.1	1.5	0.01	0.49	+	0	2.92	1.70	1.11	0.77	55	74
July	1.75	2-4	135	62	31	35	64	50	30	18	0.0	1.3	0.00	0.36	+	0	2.68	1.92	1.28	0.94	51	65
Aug.	1.7†	1-3	131	58	16	16	68	52	32	15	0.0	1.5	0.01	0.25	+	0	2.71	2.50	2.06	1.37	45	50
Sept.	1.7	1-2	124	54	28	20	72	52	32	16	0.0	1.4	0.04	0.32	+	0	2.60	1.86	1.28	1.04	44	60
Oct.	1.7	2-4	150	61	28	18	80	55	34	17	0.0	1.3	0.01	0.26	+	0	2.22	1.52	1.06	0.72	53	68
Nov.	1.7-	1-2	161	64	40	18	83	57	39	18	0.0	1.6	0.01	0.20	+	0	1.61	1.30	0.94	0.70	46	57

year, each pair being in use from four to six weeks. The percentage removal of suspended matter from the screened sewage was not as great as in any of the past few years, but this was due to the smaller quantity in the screened sewage. The average quantity of suspended matter in the septic tank effluent was less than in 1911. An examination of the concrete in the septic tanks was made and it was found to be in first-class condition.

The septic tanks were cleaned last March and about 2,000 cu. yds. of wet scum and sludge were run on to the sand sludge bed. This represented 2.81 cu. yds. per million gallons of sewage treated, and indicates that the greatest amount of septic decomposition ever obtained was in 1911. The measurements made in 1912 indicate that similar good results will be obtained in March, 1913.

A contract has been made with Mr. Charles A. Peterson to remove, wash and replace the acceptable portion of the present filling material in the primary contact beds and supply whatever new material is required, this work, as above stated, being now in progress. In November, 1912, the surfaces of the secondary contact beds were cleaned and leveled by Mr. Peterson as a part of his contract, at a cost of \$114.76. During 1912 three clinker primary beds have received four cleanings and an average quantity of 43 cu. yds. of scum and surface material per month has been removed from the secondary beds.

The cost of maintaining the sewage disposal plant during the past five years is as follows:

Year	Mil. gal. Sewage	Cost of Special Repair Work	Cost of Repair Work per mil. gals.	Cost of Maintenance.	Cost of Maintenance per mil. gals.
1908	547.5			3,814.70	6.97
1909	600.5	2,184.76	3.64	3,536.33	5.89
1910	625.1	1,946.51	3.12	3,289.80	5.26
1911	655.1	0.00	0.00	2,802.87	4.28
1912	687.5	0.00	0.00	3,195.83	4.65

Cost per capita for maintenance of sewage disposal works, 16 cents.

A summary of the results obtained at the works during the year 1912 is given in the accompanying table.

The detailed statement of receipts and disbursements is as follows:

Receipts

Carried forward from 1911 (appropriated for cleaning contact beds).....	\$1,729.99
Appropriations	6,600.00
Sewer connection permits.....	234.00
Sale of pipe and castings.....	10.67
	<hr/>
	\$8,574.66

Disbursements

Improvements of contact beds (advertising).....	\$ 15.62
Care of contact beds.....	992.25
Care and emptying of septic tanks.....	232.65
Attending to screen.....	340.43
Laboratory	49.19
Telephone	24.32
Repair of buildings.....	58.05

Manager and chemist at disposal works.....	1,422.52
Test borings for trunk sewer and sewer extension, surveys and maps.....	32.24
Tools and supplies.....	180.66
Repairing sewers and appurtenances.....	207.52
Testing and flushing sewers.....	475.71
Water for flushing.....	608.10
Removing obstructions from sewers.....	299.57
Inspecting construction of sewer connections.....	100.90
Pumping stations—attendance and labor, including alterations	1,012.66
Pumping stations, electric power.....	695.56
Pumping stations, electric light.....	38.30
Pumping stations, supplies, including alterations.....	213.30
Sewer record maps.....	90.70
Automobile	43.81
Engineer in charge.....	1,200.00
Cleaning brook at disposal works.....	54.37
Labor on roadways, etc., at disposal works.....	9.15

\$8,397.58

Respectfully submitted,

WILLIAM L. GLOAK,
CHARLES C. RANDOLPH,
WM. W. WILSON,
FREDERIC E. MYGATT,
FRED ENDRESS,

Committee on Sewers.

ANDREW J. GAVETT,
Engineer in Charge.

REPORT OF COMMITTEE ON STREETS

Plainfield, N. J., Dec. 30, 1912.

To the Honorable Common Council of the City of Plainfield.

GENTLEMEN:—We submit herewith our annual report of work done and moneys received and expended during the year 1912.

New Macadamizing

The work called for in two contracts for new macadamizing awarded June 17 and 21, 1912, has been entirely completed by the contractors, Joseph F. Burke and Mobus Brothers.

This pavement was all water-bound macadam, laid on the following streets:

Lenox avenue;

Cameron Avenue;

Laramie Road;

West Third Street, from Clinton Avenue to the City Line;

West Third Street, from Madison Avenue to Arlington Avenue;

Arlington Avenue, from West Third street to West Fourth Street;

George Street, from Netherwood Avenue to Geneva Place;

Netherwood Avenue, from East Front Street to Green Brook.

The macadamizing of East Seventh Street to Terrill Road, and of Leland Avenue to Cushing Road (left over from the contract of 1911), was also finished and has already proved of the greatest benefit to residents and to property in the neighborhood.

Application will now be made to the Court of Common Pleas for the appointment of Commissioners to assess the cost of work done under these contracts.

East Seventh Street has a bituminous binder in the upper two inches, consisting of Tarvia X, Bermudez and Pioneer Asphalt, and is seven inches deep in the center and five inches at the sides.

South Avenue was paved this year with Amiesite by the Union County Board of Freeholders at a cost to the County of \$22,891.85, and is an excellent piece of work. Two county roads border on the city, Jefferson Avenue on the west and Terrill Road on the east. These roads are paved with Amiesite, but the work is not equal in quality to that on South Avenue. West Seventh Street, in Middlesex County, is also an Amiesite road.

Several new streets have been opened during the year, most of them being merely graded. An exception is Cedar Brook Road, through the Martine property. In improving this street the owners complied with all the requirements of the city ordinances governing the laying out of such streets, macadamized the roadway, laid concrete sidewalks, curbs and gutters in conformity with city specifications, and installed sewer, gas and water pipes, all without any expense to the city.

Under the new law requiring that all maps showing streets proposed to be opened shall be approved by the Common Council before being accepted for filing by the Register of Deeds, two maps have been submitted for approval, one of which was approved and one was not approved.

Street Repairs

The streets receiving the principal grading and repair work this season were the following:

Park Avenue, at the southerly end;
East and West Front Streets,
Watchung Avenue,
East Second Street,
East and West Fourth Streets,
East Fifth Street,
East Seventh Street,
Prospect Avenue,
St. Mary's Avenue,
West Seventh Street,
West Eighth Street,
Plainfield Avenue,
South Second Street,
West Third Street,
Manson Place and
McDowell Street.

The construction of a new track on East and West Fourth Streets by the Public Service Railway Company called for extensive repairs to these streets. Your committee was unable to complete the westerly end of West Fourth Street owing to lack of funds. The street railway company pays one-third of the cost of the re-macadamizing.

Many complaints have been received this year, as usual, in regard to the condition of the sides of streets which are only macadamized for a width of 16 feet in the middle.

This construction answers very well for thinly settled districts, but as soon as the increase of buildings calls for driving on the dirt sides, it is entirely inadequate.

The Town of Westfield is setting an excellent example in road construction, the macadam on most of the newly improved streets covering the entire space between the gutters, which are generally paved with brick or concrete. When the work is done in thinly settled districts only the center of the street is macadamized at first, the idea being that the pavement will need resurfacing by the time the street is built up, and that this repair work will then be done at the expense of the town, and the sides will be macadamized at the same time at the expense of the property owners. It is evidently unfair to repair the dirt sides and gutters on some streets with stone at the expense of the city, and on other streets to macadamize the full width of the roadway and assess most of the cost on the abutting property owners.

Numerous openings were made in the brick pavement this year for sewer connections and by the public service companies. These openings are re-paved by the street force and the cost of the work is paid by the individuals or companies making the openings.

With the exception of a number of spots needing repair, the pavement is now in good order.

The macadam pavements with the bituminous binder in top course constructed during the past few years are proving satisfactory and are the only macadam pavements which seem able to meet the demands of modern travel.

A number of streets, to which attention has been called in

previous reports as being in need of substantial repair, have not yet been attended to, owing to lack of funds.

Dust Preventive Work

Twelve carloads and ten barrels of road oils, Tarvia and Asphalt were used this season, a total of 113,829 gallons, which cost, including freight and demurrage....	\$6,595.00
The stone and slag used as a top dressing on the four carloads of Tarvia B and the two carloads of Trinidad Liquid Asphalt, cost, including freight and demurrage	679.63
The labor for preliminary cleaning of streets and for spreading oil, stone and slag, cost.....	2,664.37

Making the total cost of dust-preventive applications....\$9,939.00

The total area covered by these applications was 453,650 square yards, and the total length of streets treated was 198,000 linear feet, or 37½ miles.

In dust preventive work there seem to be three general classes of material: 1st, light oils, which are applied as easily, and are almost as clean as water, and which only last a month or two on busy streets; 2d, heavier oils, which are more trouble to apply, but last nearly a season, both of these being good dust-absorbers, but the latter help to form a greasy mud on much-traveled streets in wet weather; 3d, tar or asphalt preparations, which soon harden and prevent the formation of dust and also preserves the macadam, but on which dust gathers to some extent, and sprinkling with water is called for by residents as soon as the material gets hard. There are also insistent calls for water sprinkling on the pavements with bitumen-bound tops. Evidently the ideal preparation has not yet been evolved.

Formerly, when the street sprinkling was done by contract, the regular season extended from May to October, inclusive, and provision was made for occasional sprinkling during the rest of the year. Now, on account of the great amount of automobile travel, water sprinkling is demanded throughout the year except when the ground is covered with snow, during rains and in very cold weather.

The principal streets treated with Tarvia B were:

West Seventh Street, from John Street to the city line;
East Front Street, from Berckman Street to Terrill Road;
Park Avenue, from Seventh Street to South End Avenue;
East and West Fourth Streets, from Watchung Avenue to

Liberty Street;

Watchung Avenue,
Rahway Road,
Elmwood Place,
Washington Avenue.

Trinidad Liquid Asphalt was used on the following streets:

Belvidere Avenue, from South Avenue to Charlotte Road;
Central Avenue, from West Front Street to Elizabeth Street;
East Fifth Street,

Leland Avenue, from East Second Street to South Avenue;

Plainfield Avenue, from West Eighth Street to Elizabeth Street.

As the effect of the application of road oils is temporary, the cost of dust-preventive work is not added in this report to the cost of street repairs.

Culverts and Crosswalks

The constantly increasing weight of vehicles and loads requires the strengthening and repair of existing culverts, and many new ones are asked for where there are now open gutters. All new culverts are constructed with concrete floors and iron covers.

There are many crosswalks in the city which need to be replaced with new stone, some which should be made wider and some additional walks are needed.

Sidewalks, Curbs and Gutters

The usual amount of work has been done this year in the repair of stone sidewalks, but the general appearance of walks of this construction is still a discredit to the city.

Concrete walks, when well made, present a much better appearance than the stone walks and keep in better line and grade. Part of the business section is now provided with good concrete walks laid to the full width of the sidewalk, and some method should be found which will require the improvement of the remaining walks in a similar manner.

The principal curbing done this year was on Grant Avenue and on West Seventh and West Eighth Streets. The appearance of our streets would be greatly improved by a more general use of curbs and gutters.

New curb lines have been established on several streets in the residence sections of the city, giving more room for the trees by narrowing the roadway. Another advantage in reducing the width of the roadways which are unnecessarily wide is in the saving made in cost of paving—quite an item when expensive pavements are laid.

Many of the curb stones now need resetting on East Ninth Street, Crescent Avenue, First, Second and Third Places, and it is suggested that when this work is done the curb lines in this section be established so as to give more room for the trees.

Removal of Snow

The cost of removing snow from roadways was \$1,287.42, and the work done was largely in the business streets. Where tracks are laid, one-half the expense of snow removal is paid by the Public Service Railway Company.

It is hoped that tenants and property owners will arrange, as far as possible, for the prompt removal of snow from their sidewalks, as this committee is unable to recruit a sufficiently large force of laborers to promptly clean the sidewalks in case many of them are neglected.

Street Numbers

Several hundred erroneous or missing street numbers have been corrected and supplied this year, the Corporation Counsel's assistance being necessary in only four cases. Practically all the numbers on buildings now agree with the official numbers on the tax books and tax bills.

Ash Dumps

Fewer complaints than usual have been received about the ash dumps. There has been such a keen competition between owners of low lands to secure the permission of the Department of Health to have ashes dumped on their premises that they have taken extra care to manage them without nuisance. The city em-

ploye, Alexander Miele, has been in charge of the dumps receiving the largest amount of refuse.

Street Openings

Carrying out the recommendations of the committee of 1911, the opening of Manson Place, McDowell, Halsey and Bergen Streets, through to West Fourth Street, has been completed as far as the official taking of the necessary land and making the assessment. The removal of the trees and grading of the new portions of the streets are now in progress.

The commissioners for the opening of these streets, Messrs. Elliot T. Barrows, William A. Woodruff and Michael Rimmer, served without compensation and performed their duties in an expeditious and entirely satisfactory manner.

Commissioners have been appointed for assessing damages and benefits for the widening of Madison Avenue between the railroad and West Front Street. Several public meetings have been held and considerable progress has been made. We hope that this very necessary improvement may soon be accomplished, as there is now no street between Plainfield Avenue and Richmond street with roadway as wide as 30 feet (the width proposed for Madison Avenue), excepting Watchung Avenue, which is 36 feet wide, but which is encumbered with double tracks.

The 1908 ordinance for the opening of Kensington Avenue, to which many objections were made, has been repealed and a new ordinance for opening the street on a slightly different line has been adopted. Resolutions to treat with property owners and to appoint commissioners will be the next steps to be taken in the proceedings for opening this street.

Street Signs

An inspection of the city street signs shows that there are 114 new signs needed for use where new streets have been opened and to replace those which are damaged. The estimated cost of these signs and of erecting them is one hundred dollars.

Automobile

The Brush automobile, after three seasons' use, is in better running order than ever, and has been in almost constant use by the different members of the street and sewer departments, making a probable daily average run of 30 miles.

Statistics

The length of streets is now as follows:

Brick Pavement.....	0.78 mile
Concrete (alley).....	0.07 "
Macadam (plain).....	53.83 miles
Macadam (bituminous).....	5.50 "
Unpaved	23.61 "
Total	83.79 "

The total length of storm sewers, exclusive of connections from inlets to sewers, is now 6.63 miles. This includes storm sewers constructed by private parties.

The detailed statement of receipts and disbursements for streets is as follows: It will be noticed that only about one-third of the total expenditures was paid for actual street repairs, even when including the work of grading of streets, the remainder going

mainly for street cleaning, opening gutters, street sprinkling, oiling, culverts, crosswalks and similar necessities.

Receipts

Appropriation	\$43,000.00
Public Service Railway Company for removing snow....	143.63
Public Service Railway Co. for repair and oiling of streets	4,493.10
For repair of ditches, etc., as follows:	
Public Service Electric Company.....	134.12
Public Service Gas Company.....	18.85
New York Telephone Company.....	2.56
Sale of stone, pipe, barrels, etc.....	32.60
Use of steam roller, scarifier, pump, etc., by contractors and others.....	271.87
Repairing of walks, ditches, gutters, and oiling.....	100.42
Money due laborers not claimed.....	9.78
	<hr/>
	\$48,206.93

Disbursements

General street cleaning and opening gutters.....	\$ 9,012.04
Street sprinkling, including repair of wagons.....	3,786.82
Dust prevention, labor and materials.....	9,939.00
Crosswalks, construction and repair.....	418.65
Culverts, construction and repair.....	1,106.97
Cleaning culverts.....	678.51
Storm sewers, construction and repair.....	1,500.96
Cleaning storm sewers.....	147.30
Cleaning catch basins.....	106.33
Cleaning brooks and ditches.....	899.76
Removing snow from streets.....	1,287.42
Removing tree branches (blown off).....	70.59
Steam roller—repairs and supplies.....	222.63
Office assistant.....	360.00
Assistants and inspectors on grades and street construction	1,108.55
Blacksmithing	152.55
Telephone	30.60
Tools and supplies.....	441.85
City yards and sheds.....	432.13
Street monuments.....	11.86
Automobile	355.86
Repair of scraper.....	16.62
Paving brick.....	143.25
Street signs.....	9.85
Carriage hire.....	7.00
Oiling and tarring apparatus.....	71.73
House numbering.....	117.25
Work done for companies and individuals, and materials furnished	213.76
	<hr/>
	\$32,649.84

Repairing and reconstructing streets as follows:

Cottage Place.....	\$ 98.19
Park Avenue.....	1,836.42
Church Street.....	20.26

Washington Street.....	21.42
Elm Place.....	10.00
Richmond Street.....	41.13
East Front Street.....	237.48
Watchung Avenue.....	427.22
East Second Street.....	448.67
East Third Street.....	24.15
Helene Avenue.....	122.80
North Avenue, Park to Watchung.....	21.72
North Avenue, East of Richmond Street.....	50.07
Emerson Avenue.....	37.00
Leland Avenue.....	69.56
Sycamore Street.....	16.84
East Fourth Street.....	562.62
East Fifth Street.....	319.49
East Sixth Street.....	14.41
East Seventh Street.....	308.45
Crescent Avenue.....	54.32
East Ninth Street.....	24.69
Kensington Avenue.....	27.97
Rahway Road.....	24.82
Hillside Avenue.....	113.97
Putnam Avenue.....	40.92
Belvidere Avenue.....	16.31
Berkeley Avenue.....	14.90
Denmark Road.....	92.35
Ravine Road.....	11.12
Franklin Place.....	13.45
Prospect Avenue.....	749.98
Martine Avenue.....	45.50
South Avenue.....	18.00
Laramie Road.....	43.56
Randolph Road.....	117.13
Woodland Avenue.....	137.17
West Fourth Street.....	4,337.71
St. Mary's Avenue.....	490.86
West Fifth Street.....	94.13
West Sixth Street.....	55.15
West Seventh Street.....	247.94
West Eighth Street.....	339.38
West Ninth Street.....	13.05
Stelle Avenue.....	24.19
Arlington Avenue.....	39.12
Pemberton Avenue.....	69.15
Madison Avenue.....	124.15
Central Avenue.....	157.56
New Street.....	25.29
Division Street.....	16.61
Liberty Street.....	50.55
Plainfield Avenue.....	468.14
Spooner Avenue.....	30.32
Grant Avenue.....	118.50
Halsey Street.....	44.57
Rose Street.....	16.25
Monroe Avenue.....	50.41
Bergen Street.....	16.79

Clinton Avenue.....	58.28
DeKalb Avenue.....	13.50
West Front Street.....	659.72
Spruce Street.....	27.90
South Second Street.....	722.83
West Third Street.....	109.52
West Second Street.....	105.66
Prescott Place.....	20.88
Pond Place.....	13.13
Muhlenberg Place.....	42.07
Manson Place.....	267.10
McDowell Street.....	67.63
Lafayette Place.....	19.81
Pine Street.....	96.46
General repairs and miscellaneous expenses.....	237.14

Total	\$48,175.35
Amount due city from Public Service Railway Company for repair of streets.....	\$ 245.14
Amount certified to assessors for removing snow from sidewalks	818.89
Amount paid in 1912 on account of streets macadamized by contract.....	20,757.16
Amount expended in 1912 on account of sanitary sewers constructed by contract.....	21,675.58
Amount charged against property owners for construct- ing and repairing sidewalks and curbs.....	569.80

Respectfully submitted,

WILLIAM L. GLOAK,
CHARLES C. RANDOLPH,
WM. W. WILSON,
FREDERIC E. MYGATT,
FRED ENDRESS,

Committee on Streets.

ANDREW J. GAVETT,

City Surveyor and Street Commissioner.

REPORT OF CHIEF OF POLICE

Plainfield, N. J., December 24, 1912.

To the Honorable Common Council of the City of Plainfield:

GENTLEMEN:—I have the honor to submit to your Honorable Body this my thirteenth annual report of the work performed by this Department for the year 1912:

Number of arrests for the year.....1059

Composed of	{	Males.....	964
		Females.....	95
Composed of as to color	{	White.....	783
		Negro.....	276

Composed as to Nationality

American	458
Afro-American	200
Irish	59
Russian	71
Italian	131
Polish	45
German	27
Scotch	9
English	18
Austrian	3
Swedish	5
Greeks	5
French	5
Syrian	3
Danish	2
Hungarian	9
Norwegian	4
Cuban	1
Spanish	2
Canadian	2
Total	1059

Arrested for the Following Offenses

Adultery	3
Atrocious Assault	10
Automobile Law	15
Bicycle Ordinance	7
Board of Health	12
Bonfire in Street	2
Breaking and Entering	6

Burglary	1
Careless and Reckless Driving	9
Cattle Running at Large	9
Collecting Junk without License	3
Concealed Weapons	6
Conspiring to Defraud	1
Criminal Assault	27
Cruelty to Animals	8
Desertion	7
Discharging Firearms within City Limits	18
Disorderly House	5
Disorderly Conduct	252
Distributing Circulars	4
Dog Ordinance	82
Drunk and Disorderly	85
Drunkenness	139
Embezzlement	5
False Pretenses	5
Forgery	6
Fornication	3
Fugitive from Justice	1
Gambling	76
Hack Ordinance	4
Highway Robbery	2
Horses Left Untied	2
Houses Not Properly Numbered	1
Indecent Exposure	1
Larceny	68
Manslaughter	1
Malicious Mischief	12
Malpractice	1
Non-support	28
Peddling without License	12
Pickpocket	4
Receiving Stolen Goods	5
School Law	7
Selling Liquor without License	39
Shade Tree Ordinance	2
Shop Lifting	1
Snow Ordinance (non-removal)	13
Sodomy	1
Sunday Law Violation	11
Threatening to Kill	6
Truancy	7
Vagrancy	22
Vehicles without Lights	2
Total	1059

Result of Arrests

Amount of fines collected during the year	\$1,814.00
Committed to County Jail	28
Dismissed	70
Fined	139
Held in bond to await the action of the grand jury	46

Juvenile Court	2
Pending	27
Probated	23
Sentence suspended	690
Turned over to other departments	34

Total 1059

	Arrests	Assists	Days off Duty	Vacation	Sick-ness
Patrick S. Kiely	18	..	9	..	..
C. Frederickson	5	..	21	14	1
H. Overbaugh	15	8	..	..	16
Roundsman Higgins	30	4	13	14	..
Detective Sergt. J. J. Flynn ...	211	..	17	14	..
Patrolman J. J. Saunders	13	7	27	10	12
“ N. Meyers	23	..	25	10	..
“ M. Vanderweg	25	1	27	10	..
“ A. Saffron	42	2	27	10	3
“ C. A. Flynn	41	10	27	10	..
“ A. McGinley	95	10	28	10	7
“ W. Messler	4	..	6	..	2
“ J. Kelly	34	8	26	10	..
“ D. O’Keeffe	30	5	28	10	..
“ G. K. Dobson	90	..	29	10	8
“ D. I. MacDonald ..	36	14	27	10	13
“ T. W. Nolan	45	3	28	10	..
“ C. C. McCarthy ...	30	..	28	10	..
“ F. Sweeney	52	..	29	10	..
“ T. Flatley	33	6	27	10	3
“ R. J. Birmingham..	7	..	27	10	5
“ F. Bader	21	1	27	10	..
“ C. Wicht	35	..	27	10	..
“ G. Muir	17	9	27	10	1
“ A. Craig	16	..	27	10	..
“ W. Mernaugh	15	..	27	10	..
“ M. Welsh	12	..	15	..	..
“ M. Flatley	11	2	17	..	..
“ J. Hendershot	12	..	14	..	2
“ R. McIntyre	11	6	15	..	..
Special Officer F. Keiderling...	1	..	..	..	..
“ “ R. Dalley	5	..	..	..	..
“ “ J. King	1	..	..	..	..
“ “ H. Probasco ...	2	..	..	..	..
“ “ John O’Brien ...	2	..	..	..	..
United States Marshal Beekman	1	..	..	..	..
Mayor G. W. V. Moy	2	..	..	..	..
Special R.R. Officer Hans	1	..	..	..	..
“ “ “ Kamp ...	6	..	..	..	..
“ “ “ Lavourette	3	..	..	..	..
“ “ “ Lawrence.	3	..	..	..	..
“ “ “ Thatsher .	3	..	..	..	..

Total 1059

Number of Reports Recorded by the Gamewell System
(From December 15, 1911, to December 15, 1912)

Patrolman Saunders	3,159
" Myers	3,126
" Vanderweg	3,059
" Saffron	3,063
" C. Flynn	3,098
" McGinley	3,062
" Kelley	3,155
" O'Keeffe	3,290
" Dobson	2,976
" MacDonald	2,997
" Nolan	3,285
" McCarthy	3,047
" Sweeney	3,052
" Thomas Flatley	3,156
" Birmingham	3,237
" Bader	3,153
" Wicht	3,222
" Muir	3,256
" Mernaugh	3,207
" Craig	3,175
" Welsh	1,868
" Martin Flatley	1,828
" Hendershot	1,847
" McIntyre	1,858
Total	70,176

Number of Store Doors found to be open by the police and looked after by the department	175
Number of Accidents during the year, and reported by the police was	149
Number of Bicycles recovered and returned to the owners	58
Number of complaints investigated by this department during the year	607

**Number of Street Lights Reported as Being Out from December 15,
1911 to December 15, 1912**

December, 1911	22
January, 1912	71
February	209
March	54
April	25
May	30
June	27
July	58
August	34
September	94
October	37
November	34
December	15
Total	710

	Salaries	Expenditures
January	\$ 2,242.95	\$ 140.51
February	2,268.98	166.71
March	2,164.96	91.89
April	2,164.96	623.01
May	2,164.96	112.74
June	2,228.93	161.90
July	2,358.40	311.70
August	2,350.96	317.49
September	2,375.19	341.99
October	2,353.62	108.62
November	2,419.17	114.75
December	2,353.97	165.09
Totals	\$27,447.05	\$2,656.40
Amount of Salaries for year 1912	\$27,447.05	
Amount of Expenditures for year 1912		2,656.40
Total		\$30,103.45

I would suggest to your Honorable Body the need of increasing the Police Department as the growth of the city demands it. Our Gamewell System should be extended, signal lights should be installed, so that any officer could be notified in case of necessity. The hours of duty of the officers and men need regulating, as some are working eight hours while others are working nine and ten hours. For many years we have been obliged to use our patrol wagon and ambulance in conveying the injured and sick to our hospital. There is always danger of the person dying from delay. This should be overcome by the purchase of an ambulance patrol wagon, and should receive due consideration from your Honorable Body. I would also suggest to your Honorable Body that the Finger Print System and Bertillon System be adopted, because they will be of great assistance to this department.

Throughout the past year this department made many important arrests, for which they have my sincere thanks, and I thank your Honorable Body for the assistance and courtesies extended to me during the past year. I also thank all citizens who have in any way contributed to the success of this department.

Respectfully,

PATRICK S. KIELY,
Chief of Police.

REPORT OF CHIEF OF FIRE DEPARTMENT

To the Committee on Fire and Buildings of the Honorable Common Council of the City of Plainfield:

GENTLEMEN:—I have the honor to submit herewith my twenty-fifth annual report of the condition and operation of the Fire Department under your control for the year ending December 15, 1912, giving the number of fires and alarms attended by the Department during the year with the value of property threatened, the amount of losses and insurance as nearly as could be ascertained.

For several years I have called the attention of your honorable body to the imperative need of another fire engine, either horse drawn or propelled by motor power. During the past year our chemical apparatus was changed from a horse-drawn vehicle to a motor truck and the success which has attended its use is, I think, sufficient to justify me in urging upon your consideration the practicability of installing motor propelled apparatus in the future.

The motor truck is rapidly taking the place of the horse in all departments where quick action is essential to the saving of life and property. Aside from the rapidity with which any point can be reached, there is an economic side to the motor propelled apparatus that deserves consideration. Just now we are fortunate in having in our immediate neighborhood an auto fire engine which can be seen by any member of the Council or by the entire councilmanic body whenever an inspection is desired.

The southern and eastern portions of our city are developing rapidly, and under existing conditions our antiquated steamer is the only effective means we have of coping with a fire in sections where the water pressure is low, owing to the elevation of the land. It is for use in these localities that we should have an apparatus properly equipped that can be rushed to any point in a short time.

In addition to the need of more effective pumping equipment it is absolutely necessary that our water pressure be increased.

Manual Force

There are forty-eight (48) men employed in the department, divided as follows: one Chief Engineer, one Assistant Engineer, four Captains, thirteen Privates, permanently employed; one Captain, one Engineer of steamer, twenty-eight Privates, on call.

Houses

There are four Engine Houses now owned by the city. Headquarters building, No. 145 to 149 East Second street, is occupied by the Chief's office, No. 2 Combination Chemical and Hose Wagon, No. 1 Hook and Ladder Truck, Supply Wagon and Chief's Automobile.

No. 1 Engine House, No. 206 and 208 West Second street, is occupied by No. 1 Steamer and No. 1 Hose Wagon.

No. 3 Engine House, No. 730 and 732 West Fourth street is occupied by No. 3 Combination Chemical and Hose Wagon and Supply Wagon.

No. 4 Engine House, No. 1015 and 1017 South avenue, is occupied by No. 4 Combination Chemical and Hose Wagon and Supply Wagon.

Apparatus

One third size double pump Amoskeag steam fire engine, 400 gallons rated capacity, one Hayes aerial turntable hook and ladder truck, 65-foot extension ladder, one 40-foot ground extension ladder and 175 feet of side and nest ladders, one double tank 60-gallon combination chemical and hose auto apparatus, two 35-gallon chemical and hose wagons, one Chief's automobile.

Hose

There are 8,500 feet of hose in use. About 3,000 feet of this are only fair; 5,500 feet good.

Horses

Ten horses are in use in the department. Three of these should be replaced.

Fire Alarm

Our system is of the Gamewell type; 53 fire alarm boxes (three having been erected this year). We have about 31 miles of overhead wire (No. 10 hard drawn copper) insulated, one steam gong located at the Spicer Manufacturing Company's works, five 15-inch house gongs (one located at pumping station), eighteen 6-inch tappers located in the homes of officers and members of the department, one six-circuit automatic combination storage battery and repeater switchboard having mounted on it instruments and switches for testing and charging; one seven-circuit repeater, (2 house circuits, five alarm circuits).

Power for the system is generated at Headquarters building by a motor generator set which delivers 180 volts direct current to 110 cells of storage battery arranged in two large groups of 55 cells each and known as battery A and B. These groups are subdivided into smaller groups and connected in each fire alarm circuit in duplicate sets so that when the repeater is in service if one set happens to be broken all of the others will be operative. When battery A is on the line battery B is being charged, and this order is changed every morning. The storage cell used is the B. T. Couple type of chloride accumulator made by the Electric Storage Battery Company and supplied to this department by the Gamewell Fire Alarm Telegraph Company. This branch of the service is cared for by the Allan B. Laing Company under the direct management of Mr. A. V. Searing, Jr. We have had very good service during the year.

Alarms

There have been 156 alarms during the year:

Telephone alarms	94
Box alarms	51
Verbal alarms	11
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	156

with insurance and losses as follows:

Loss on buildings	\$ 9,279.00
Loss on contents	13,389.00

Total loss, insured and uninsured. \$22,668.00

Insurance on buildings	\$142,650.00
Insurance on contents	83,075.00

Total amount of insurance \$225,725.00

Amount of insurance collected:

Insurance loss	\$22,243.00
No insurance loss	425.00
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	\$22,668.00

Value of property involved:

Buildings	\$172,300.00
Personal	113,925.00
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	\$286,225.00

Causes of Fires

Unknown	28
Chimneys and defective flues	25
Woods and grass	23
Debris	15
Out of city	6
Locomotive sparks	5
Automobiles	4
Gasolene	4
Stoves	4
Heater	4
Steam	3
Oil stoves	3
Smoke	3
False alarm	3
Tar pots	2
Thawing pipes	2
Motors	2
Grease	2
Balloon	2
Curtains	2
Bed	1
Gas stove	1
Load hay	1
Alcohol stove	1
Cigar	1
Spontaneous combustion	1
Flashlight	1
Sulphur candles	1
Boys	1
Lamp	1
Fire works	1
Awning	1
Railroad ties	1
Electric iron	1
Total	<hr/> 156

Duty

No duty	44
Small extinguishers	36
Hydrant streams	22
Chemicals	19

Beat out	18
Chemical and small extinguishers	7
Chemical and hydrants	5
Pails water	2
Pails water and small extinguishers	1
Steamer	1
Steamer and hydrant	1
Total	156

Water

There are 373 fire hydrants throughout the city with a pressure of about 75 pounds in the center of town. In the Netherwood Heights section the pressure will average less than 30 pounds. Some means should be used to prevent the use of the hydrants by the water wagons. In a great many instances when a fire occurs we find the hydrants out of order through the carelessness of the drivers of the water wagons.

In conclusion I wish to tender my sincere thanks to Mayor Moy, Mr. Duncan W. Taylor, chairman of the Fire and Buildings committee, and to all of the city officials for their courteous treatment and assistance during the year. Also to the officers and members of the Department for their loyalty, and would add that to their good work is due the success to which the department has attained during the year.

Respectfully submitted,

T. O. DOANE,
Chief Engineer.

Dec. 28, 1912.

REPORT OF BOARD OF HEALTH, CITY OF PLAINFIELD, N. J., 1912

Members and Official Staff of the Board of Health Plainfield, N. J., 1912

WM. H. MURRAY, M. D., President.....737 Watchung Avenue
T. S. DAVIS, M. D., Secretary.....603 Park Avenue
STEPHEN H. VOORHEES, Treasurer.....943 Madison Avenue
WILLIAM M. WHERRY, JR.....965 Madison Avenue
ARTHUR E. FORCE.....1014 West Front Street.

JOHN O'BRIEN, JR., Supervising Health Officer...Plainfield Avenue
HARRIET O. MATTISON, Acting Health Officer.....2 Grove Street
HARRIET O. MATTISON, Clerk and Registrar of Vital Statistics
2 Grove Street
WILLIAM ADDIS, SR., Inspector.....310 Orange Place
N. J. RANDOLPH CHANDLER, Inspector.....14 Codrington Avenue
HERBERT A. STINE, Inspector.....11 Mountain Avenue
JOHN H. CARMAN, M. D., Medical Inspector...602 Crescent Avenue
G. THORNTON LONGBOTHUM, M. D., Bacteriologist
1118 South Avenue
ELIZABETH ROSENSON, Stenographer.....205 Spooner Avenue

Plainfield, N. J., December 30th, 1912.

To the Honorable Mayor and Common Council, City of Plainfield,
New Jersey.

GENTLEMEN:—We have the honor to present the twenty-fourth Annual Report of the Board of Health of the City of Plainfield.

The work of the Department has been carried on this past year along the same general lines as in recent years. We have tried, however, to meet the needs of changing conditions, and as a means to this end have prepared a revision of the entire Sanitary Code. Since the adoption of the old code in 1902 many new statutes have been passed, and it has been found inadequate in many ways. The report of the Health Officer, which follows, will give in detail the workings of this department.

We would beg leave to emphasize the need of some provision for the care of certain classes of cases of scarlet fever and diphtheria in a properly equipped isolation hospital, and we would respectfully advise that some prompt and effective means be taken by which this may be accomplished.

We would again call your attention to the fact that in our opinion the city does not possess sufficient control over its water supply. This matter has been frequently emphasized by us, and we trust that such proper control will be obtained by you in the near future.

The disposal of ashes and rubbish is constantly a source of much complaint on the part of our citizens and the cause of many nuisances. We feel, as expressed in our special communication, the:

very grave importance and the imperative need of the establishment of a municipal system for the collection of this class of household waste, as well as the collection of garbage.

Several changes were made in our office force during the past year, and with the growing needs of the city it has been necessary for this Board to add another Sanitary Inspector. At the present time the force consists of a Health Officer, who also acts as Clerk and Registrar, three Inspectors, a Bacteriologist and Stenographer. The Board also employs, from time to time, a physician who acts as Medical Inspector.

Respectfully submitted,

WILLIAM H. MURRAY, President.

T. S. DAVIS, Secretary.

ANNUAL REPORT OF THE TREASURER

December 30, 1912.

To the Board of Health, City of Plainfield, N. J.

GENTLEMEN:—The following is the report of the Board's finances for 1912:

FEES AND FINES

Receipts

Plumbing Permit Fees.....	\$ 527.00
Barber Shop Permit Fees.....	42.00
Garbage Permit Fees.....	102.00
Scavenger Permit Fees.....	10.00
Milk Permit Fees.....	164.00
Chicken Permit Fees.....	73.25
Ice Permit Fees.....	10.00
Fines	25.00

\$ 953.25

Disbursements

Paid to City Treasurer.....	\$ 953.25
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BOARD OF HEALTH ACCOUNT

Receipts

December 30, 1911, balance.....	\$ 673.39
Appropriation from Common Council.....	7,500.00
Disinfecting	8.50
Analysis of milk (other than Plainfield).....	29.00
Expense in connection with analysis sample of water	2.30

\$8,213.19

Disbursements

Salaries:

Health Officer, 6 mos. @ \$150.....	\$ 900.00
Supervising Health Officer, 6 mos. @ \$41.67	250.02
Acting Health Officer, 6 mos. @ \$16.67....	100.02
Inspector	999.98
Inspector, 4 mos. @ \$50.....	200.00
Inspector, 6 mos. @ \$60.....	360.00

Inspector, 2 mos. @ \$50.....	100.00
Inspector and Bacteriologist, 1 mo. @ \$80.	80.00
Inspector, 5 days @ \$1.....	5.00
Bacteriologist, 8 mos. @ \$25.....	200.00
Bacteriologist, 3 mos. @ \$35.....	105.00
Clerk and Registrar.....	999.98
Stenographer, 22 wks. @ \$8.....	176.00
Stenographer, 7 mos. @ \$40.....	280.00
	<hr/>
	\$4,756.00

General Expenses:

Rent of Office Rooms.....	\$ 276.00
Insurance	48.00
Cleaning Office Rooms.....	118.75
Laundrying Towels.....	10.04
Desk	15.00
Typewriter	5.00
Rug	27.50
Directory	3.50
Telephone	32.50
Filing Sections for Cabinet.....	23.50
Post Office Box Rent.....	6.00
Subscription to "American City".....	1.04
Electrical Supplies.....	3.44
Expense in Connection With Preparation of Sanitary Code.....	59.11
Plumbers' Charts.....	5.00
Expenses of Representative to International Congress on Hygiene and Demography	33.30
Expense in Connection With Condemnation of Potatoes.....	12.50
Permit signs.....	30.00
Sign Boards.....	6.00
Linen Coats.....	9.00
Subpoenas	2.50
Removal of Dead Animals.....	40.75
Bicycle and Supplies.....	36.35
Expressage, Cartage, Etc.....	26.49
Telegrams and Night Letter.....	1.70
Carriage Hire.....	167.00
Automobile Hire—5 months @ \$28.00...	140.00
Carfares	41.80
Railroad Fares.....	7.90
Bottle Carrier.....	1.25
Repairing Smoke Machine.....	3.59
Repairing Sterilizer.....	1.95
Lunches (Dairy Inspection).....	7.20
Broom .....	.65
Fly Paper.....	.40
Funnel .....	.15
Labels .....	.10
Garbage Removed.....	.10
Peas (for analysis).....	.30
Tacks .....	.10
Cheesecloth .....	.50
Gas and Oil.....	1.90
Lock and Key.....	.75

Screw Hooks.....	.05	
Cleaning Waste Pipe.....	6.98	
Rubber (for centrifugal machine).....	.15	
Paint Brush.....	.10	
Liquid Veneer.....	.50	
		<hr/>
		\$1,242.39
Care of Communicable Disease:		
Carriage Hire and Removal of Patients..	\$ 22.50	
Disinfecting Supplies.....	220.62	
Care of Patients (Doctors' and Nurses Services and Hospital Expenses).....	319.36	
Telephone Calls.....	1.10	
Vaccine	16.25	
Anti-toxin (Diphtheria).....	31.62	
Sputum Cups.....	16.00	
		<hr/>
		\$ 627.45
Laboratory Supplies:		
Milk and Cream Samples.....	\$ 30.09	
Ice	20.50	
Gas	21.29	
Equipment and Supplies.....	118.24	
		<hr/>
		\$ 190.12
Printing, Stationery and Office Supplies:		
Printing and Advertising.....	\$ 251.01	
Postage (including stamped envelopes)...	116.61	
Stationery and Office Supplies.....	97.83	
		<hr/>
		\$ 465.45
		<hr/>
		\$7,281.46
Bank Balance.....	\$ 906.73	
Petty Cash.....	25.00	
		<hr/>
		\$ 931.73
		<hr/>
		\$8,213.19

SUMMARY

Receipts

Balance, December 30, 1911.....	\$ 673.39	
Appropriation from Common Council.....	7,500.00	
Analysis of Milk.....	29.00	
Disinfection	8.50	
Analysis of Water Sample.....	2.30	
Fees and Fines.....	953.25	
		<hr/>
		\$9,166.44

Disbursements

General Expenses.....	\$7,281.46	
Fees and Fines Paid to City Treasurer	953.25	
		<hr/>
		\$8,235.21
Bank Balance	\$ 906.73	
Petty Cash Fund.....	25.00	
		<hr/>
		\$ 931.73
		<hr/>
		\$9,166.44

Respectfully submitted,

S. H. VOORHEES,

Treasurer.

ANNUAL REPORT OF THE HEALTH OFFICER

December 30, 1912.

To the Board of Health, City of Plainfield, N. J.

GENTLEMEN:—In submitting the following detailed report of the work accomplished by the Department of Health during the year 1912, your attention is respectfully called to the fact that we were somewhat handicapped on account of the many changes made in the official force, and were unable to carry out in full the plans made at the beginning of the year. The routine work has, however, been carried along, and the results may be seen in the following pages.

The total number of inspections made during the year is as follows:

No. inspections in connection with general work.....	2,823
No. inspections in connection with plumbing.....	1,355
No. inspections in connection with the milk supply.....	620
No. inspections in connection with complaints and nuisances...	1066
Total number of inspections.....	5,864

In order to ascertain the general sanitary condition of the trolley cars running through Plainfield, inspections were made on all four lines at different hours of the day and night. Thirty such inspections were made and in most instances the cars were found to be fairly clean.

It is quite unnecessary to call your attention to the great need of a modern system of collection and disposal of garbage, ashes and rubbish, but it may interest you to note among the figures in connection with the complaints and nuisances that the largest number of complaints from any one cause was on account of accumulations of garbage, and that a great many of the complaints of other nuisances was due to the lack of a proper system of caring for these household wastes. There is no deficiency in the number of collectors, for thirty-one permits for this purpose were issued to twenty-six different persons during the year—an unnecessarily large number. But no special territory is observed, the majority of the collectors covering the entire city, and there is a woful lack of any system.

You will, doubtless, make the usual appeal to the Common Council to take some very definite steps toward establishing a more sanitary method, and it is earnestly to be hoped that such an appeal will be uncalled for when the next annual report is submitted.

Some work was done toward enforcing the provisions of the State law in regard to the exposure of foods to contamination. On the receipt of copies of the rules adopted by the State Board of Health for the uniform enforcement of Chapter 231 of the Laws of 1909, a conference with the grocers and fruit dealers in the city was called and the majority expressed their willingness to conform to any reasonable demand.

In explanation of the large number of so-called complaints of accumulations of manure, we would say that during the course of our inspections of stables, 69 were found in which no proper provision for the storage of manure has been made.

The Acting Health Officer desires to take this opportunity to

thank the Board for the privilege of representing it at the 15th International Congress on Hygiene and Demography, held in Washington, D. C., during the latter part of September. A great many helpful suggestions were gained from this extraordinary meeting of sanitarians from different parts of the world, which will be of benefit to the Board in carrying on its very important work.

Communicable Disease

The past year has been most remarkable as regards communicable disease. With the exception of measles, there was a decided decrease from the number reported in 1911. A total of 568 cases were recorded in 1912, of which 420 were measles. A comparison of the two years may be made by studying the following tables:

Disease	1911		1912	
	Cases	Deaths	Cases	Deaths
Scarlet Fever	47	1	29	0
Diphtheria	22	1	14	2
Typhoid Fever	23	4	10	2
Tuberculosis	89	27	43	15
Chicken Pox	56	0	23	0
Measles	49	0	420	0
Anterior Poliomyelitis	0	0	2	0
Whooping Cough	0	0	25	1
Tubercular Meningitis	0	0	2	3
Totals	286	33	568	23

Imported Cases

Scarlet Fever	2	0	1	0
Diphtheria	0	0	5	0
Typhoid Fever	8	1	3	0
Tuberculosis	0	0	1	0
	296	34	578	23

Scarlet Fever

The 29 cases represent the smallest number reported to this department in six years. No deaths resulted.

Diphtheria

Only 14 cases of this disease occurred in Plainfield during the past year—a most remarkable record. As may be noted from the table on another page, this is the lowest number reported since 1897.

The two deaths were of infants, and occurred very shortly after the development of the disease.

Anti-toxin is still being supplied by the Board for use in indigent cases.

Typhoid Fever

As in the case of Diphtheria, the record for 1912 was an unusually good one—fewer cases being reported than at any time since 1897. In nearly every instance, the disease was contracted outside of Plainfield, and in no case was the source of infection definitely traced to any local conditions. Ten cases were reported and two deaths.

Tuberculosis

At the close of 1911 there were remaining in the City of Plainfield sixty-seven cases of Tuberculosis; forty-three cases were re-

ported during 1912, making a total of 110. At the present date there are 63 cases still remaining in Plainfield, as shown by the following table:

Cases of tuberculosis reported prior to 1912.....	67	
Cases of tuberculosis during 1912.....	43	
	—	110

Deaths:

Cases reported prior to 1912.....	14	
Cases reported during 1912.....	9	
	—	23

Left town—permanently:

Cases reported prior to 1912.....	5	
Cases reported during 1912.....	6	
	—	11

Left town—temporarily:

Cases reported prior to 1912.....	5	
Cases reported during 1912.....	8	
	—	13

Remaining cases:

Cases reported prior to 1912.....	43	
Cases reported during 1912.....	20	63
	—	—
		110

Only 15 deaths from this disease occurred in Plainfield during the past year, two of which resulted from unreported cases. This makes the death rate for tuberculosis unusually low—0.68 per thousand population.

Measles

Plainfield, like many other localities, took its turn this past year in having an epidemic of measles. From the first of February to the first of June, 372 cases were reported. The remaining 48 were distributed fairly evenly throughout the other months of the year.

Measles is difficult to control on account of the fact that, as generally conceded by the majority of physicians, the disease is most contagious during the incubation period when the symptoms differ in no wise from an ordinary cold in the head, and it is often impossible to make a diagnosis of measles until the more advanced symptoms, including the rash, appear. Such being the case, the patient may have already infected those with whom he has associated.

During the height of the epidemic, a petition, signed by some of the citizens of Plainfield, was received in which the Board was requested to adopt quarantine as a means of checking the spread of the disease. The matter was carefully considered by the Board and a consensus of opinion obtained from the physicians practicing in the city as to the wisdom of this procedure. The majority of the physicians were in favor of "isolation" rather than "quarantine."

In view of the foregoing facts, the decision of the Board was against the quarantine method, believing that the disease is not one which can be carried; that quarantine would be useless, inasmuch as the disease is almost invariably spread before the patient is known to have measles; and that, under the circumstances, quarantine would entail unnecessary hardship. Further, that the usual practice of the Board in promptly notifying the school authorities of all cases be continued in order that measures might be taken by which those who had not had the disease and had been exposed to infection should be restrained from attending school until such time as the

incubation period had passed. Also that a circular of instruction to those in charge of such patients be printed and sent promptly upon the report of the case.

Anterior Poliomyelitis

Two cases of this disease were reported, one of which developed during the latter part of the year. The other case is apparently making an uneventful recovery.

The following rules in regard to the isolation and care of cases of this disease were recently adopted by the Board:

Rules for the Control of Anterior Poliomyelitis

1. Isolation of the patient and screening to keep out insects. Domestic animals should be excluded from the room.
2. Disinfection or destruction of all discharges, especially the sputum and nasal secretions and excretions from the intestines. Nurse and physician should observe the same precautions regarding their hands and clothing as in attending a case of scarlet fever.
3. A modified quarantine should be observed. Other children in the family should certainly be excluded from school. The breadwinner may be allowed to work. Three weeks should be the minimum period of isolation and quarantine.
4. When this disease is present in a community, public gatherings which children will attend should be discouraged.
5. Members of the family and those exposed should use an antiseptic gargle or spray.
6. After recovery of the patient, the house should be disinfected with formaldehyde.
7. The attention of physicians should be directed to the fact that abortive cases are often associated with typical cases, and the same precautions should be observed with such cases.
8. Acute poliomyelitis (infantile paralysis) has been declared by the State Board of Health to be a reportable disease. This means that all cases must be reported by physicians to the health officer and by the health officer to the Secretary of the State Board of Health.
9. Since the disease is infectious prior to the onset of paralysis, suspected cases should be reported and quarantined until the exact nature of the disease is known.

DEPARTMENT OF HEALTH, PLAINFIELD, N. J.

Circular of Information in Regard to the Isolation and Care of Cases of Measles, German Measles, Chicken Pox, Whooping Cough and Mumps.

Care and Isolation of the Patient

Persons having measles, German measles, chicken-pox and mumps should be confined to a well ventilated room, located as far as possible from the other occupied rooms in the house. Other members of the household should not be allowed access to the room, except the one having charge of the patient. If practical, the person in charge of the patient should not mingle with the other members of the family.

In cases of whooping cough, the patient should be kept apart from all persons who have not had the disease and they should not be allowed to travel in trolley cars or other public conveyances.

Particular care should be taken in cases of measles and whooping cough, to have all handkerchiefs or cloths used by the patient for the collection of discharges for the nose or throat either burned or disinfected. It is better to use worthless cloths and have them burned, but if handkerchiefs are used they should be boiled for at least one-half hour.

When, in the opinion of the physician, persons who have been suffering from measles, German measles or chicken-pox, have entirely recovered, a thorough bath should be taken and clean clothing (which has not been in the infected room) put on.

Exclusion From School

Under no circumstances should any of these patients be allowed to mingle with other children, or attend school, Sunday school, church or any public gathering; and they will be allowed to return to school ONLY after obtaining a certificate from either one of the School Physicians or the Board of Health Physician.

All persons attending school who have not had measles and chicken-pox, and have been exposed to these infections, shall be excluded from school for at least two weeks.

Care of the Infected Room

After the room has been vacated by the patient, all bed clothing, clothes and articles used by the patient, should be removed and thoroughly cleansed by boiling, if possible. Then the room and all contents should be thoroughly aired and exposed to the direct rays of the sun, and the room cleaned.

TABLE SHOWING COMMUNICABLE DISEASE FOR THE PAST SIXTEEN YEARS

Year	Scarlet Fever		Diphtheria		Typhoid Fever		Small-Pox		Chicken-Pox		Tuberculosis		Measles	
	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths	Cases	Deaths
1897	101	1	18	1	16	0	0	0	0	0	0	0	9	1
1898	23	0	40	4	14	1	0	0	0	0	0	0	11	0
1899	19	2	28	2	20	1	0	0	0	0	0	0	10	0
1900	104	1	19	0	19	3	0	0	0	0	0	0	74	1
1901	23	0	29	4	29	4	0	0	0	0	0	0	0	0
1902	55	6	55	6	35	3	14	4	3	0	0	0	30	0
1903	35	2	123	4	29	7	3	0	60	0	48	27	9	0
1904	37	1	53	4	38	9	1	0	26	0	59	44	171	0
1905	47	0	23	1	22	2	0	0	15	0	23	35	215	0
1906	27	1	23	2	19	2	0	0	16	0	42	26	20	0
1907	51	1	36	1	13	0	0	0	34	0	41	30	10	0
1908	30	0	20	4	52	9	0	0	18	0	47	42	222	0
1909	102	1	27	2	14	2	6	0	44	0	57	29	102	0
1910	72	2	48	2	25	3	0	0	32	0	62	37	80	0
1911	47	1	22	1	23	4	0	0	56	0	89	27	49	0
1912	29	0	14	2	10	1	0	0	23	0	43	15	420	0

TABLE SHOWING COMPARISON OF DEATHS FROM TUBERCULOSIS AND PNEUMONIA FOR THE PAST SIXTEEN YEARS

Year	Population	Number of Deaths from all Causes	TUBERCULOSIS			PNEUMONIA		
			Deaths	Percentage of Total Deaths	Deaths per 1,000 Population	Deaths	Percentage of Total Deaths	Deaths per 1,000 Population
1897....	14,114	227	26	11.41	1.84	15	6.61	1.06
1898....	14,634	218	17	7.80	1.16	13	5.96	.89
1899....	15,154	229	24	10.52	1.58	17	7.42	1.12
1900....	15,674	234	26	9.15	1.66	44	15.49	2.81
1901....	16,198	255	23	9.02	1.42	24	9.41	1.48
1902....	16,722	257	38	14.70	2.27	25	9.73	1.50
1903....	17,246	261	27	10.34	1.57	13	4.98	.75
1904....	17,770	286	44	15.38	2.48	30	10.49	1.67
1905....	18,294	286	35	12.24	1.91	24	8.39	1.31
1906....	18,818	298	26	8.72	1.38	31	14.40	1.64
1907....	19,342	344	30	8.72	1.55	29	8.43	1.50
1908....	19,866	330	42	12.72	2.11	28	8.50	1.41
1909....	20,390	289	29	10.04	1.42	29	10.04	1.42
1910....	20,921	318	37	11.63	1.77	35	11.01	1.67
1911....	21,445	296	27	9.12	1.26	27	9.12	1.26
1912....	22,000	298	15	5.03	.68	35	11.74	1.59

DISINFECTIONS

The total number of disinfections for the past year was 663 as shown by the following table:

Disinfections On Account of	No.	Houses	Rooms	Cloth- ing	Hos. Ward	Car- riages
Scarlet Fever	42	29	94	1	4	5
Tuberculosis	38	37	84	1	0	0
Diphtheria	23	13	73	0	6	1
Request of Householders..	48	49	113	1	1	0
	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>	<hr/>
	151	128	364	3	11	6

The disinfections done by request of the householders were on account of measles, cancer, whooping cough, chicken-pox, etc., and in some cases as a means of special precaution.

This Department does not require disinfection in these cases.

General Inspections

The following list will show the number of inspections made during the year in connection with the general work of the Department:

No. inspections in connection with complaints and nuisances..	1,066
“ “ “ “ “ chicken yards.....	245
“ “ “ “ “ accumulations of manure..	61
“ “ “ “ “ water supply.....	33
“ “ “ “ “ garbage disposal.....	45
“ visits to houses with communicable disease.....	110
“ legal notices served.....	58
“ inspections of properties on Cottage Place.....	68
“ Police Court cases	10
“ inspections for vaults and cesspools.....	56
“ “ of alleys	180
“ “ “ backyards	482
“ “ “ houses (other than Cottage Place).....	52
“ “ “ barber shops	41
“ “ “ trolley cars	30
“ “ “ bakeries	7
“ “ “ meat markets	5
“ “ “ delicatessen	1
“ “ “ Chinese laundries	6
“ reinspections	1,233
Total	<hr/> 3,889

COURT CASES

Ten cases were tried in the Police Court during the past year, and a sentence of \$25 was imposed in one instance; this was in connection with a violation of the plumbing ordinance. In each of the other cases, sentence was suspended on condition that certain requirements be fulfilled.

The cases were on account of the violation of the following ordinances:

4	violations of the Nuisance Ordinance.
4	violations of the Plumbing Ordinance.
1	violation of the Milk Ordinance.
1	violation of the Chicken Ordinance.

10 Total,

COMPLAINTS AND NUISANCES

Complaints of nuisances were received during the past year to the number of 538.

Number of complaints remaining over from 1911 were.....	44
Number of complaints received during 1912 were.....	538

Making a total of.....	582
Number nuisances abated during 1912.....	426
Number groundless complaints	53

	479
Total number complaints unabated at this date.....	103

582

The following table will show the causes for which complaints were made:

Garbage	79
Cesspool	35
Privy vaults abolished	36
Chickens	65
Dumping	21
Unsanitary water closets	18
Dead animals	43
Accumulation of manure	69
Water in cellar	15
Water turned off.....	10
Complaints in regard to live animals.....	11
Burning paper and refuse	9
Overcrowding	2
Defective plumbing	3
Unsanitary houses and cellars	21
Unsanitary yards	9
Unsanitary butcher shops	1
Frozen pipes	2
Pipes stopped up	8
Miscellaneous	81
	— 538

To secure the abatement of the above nuisances, the following action was taken:

Verbal notices given	85
Legal notices served	158
Letter written	250
Total	493

PLUMBING

This branch of the department's work has been carried on as usual during the past year. A total of 292 plans were filed, three of which were rejected because they did not comply with the requirements of the plumbing ordinance. 427 plumbing permits were issued.

During the year the Board passed a resolution to the effect that before any plumber's bond would be accepted, he must be examined by a committee appointed by the Board for the purpose, and that no bond would be accepted except on the favorable report of such committee.

The following table will show the number of plumbing inspections made during the year:

Number plans approved	289	
Number plans rejected	3—	
Total number plans filed		292
Number water tests approved	226	
Number water tests rejected	25—	
Total number water tests made		251
Number smoke tests approved	259	
Number smoke tests rejected	27—	
Total number smoke tests made		286
Number additional inspections and reinspections		818
Total		<hr/> 1,355

1912

ANALYSES CITY WATER
(Parts per Million)

Date	Odor		Total Solids	Loss on Ignition	Mineral Residue	Nitrogen				Chlorine	Alkalinity	Iron	B. Coll. Communis
	Hot	Cold				As Ammonia	By Permanganate in Solution	Nitrites	Nitrates				
Jan. 5	0	0	0	0	136	.014	.028	.0	.60	5.5	105.0	0.	Absent
Jan. 10	0	1e	0	64	136	.020	.046	.002	.76	5.5	108.0	0.	Absent
Feb. 29	0	1e	0			.0	.003	.003	.60	5.5	110.8	0.	Absent
Apr. 12	0	0	0			.006	.018	.0	1.20	7.5		0.	Absent
Apr. 17	0	0	0			.004	.018	.004	.68	7.5		0.	Absent
June 20	0	1e	0			.006	.030	.002	1.00	7.5	110.0	0.	Absent
July 3	0	0	0	34	188	.008	.064	.006	.72	6.5		0.	10.0 cc 3 days
July 5	0	1m	0	26	178	.008	.048	.003	1.12	7.0	108.	0.1	Absent
July 15	0	1e	0	204	42	.004	.014	.004	1.00	8.5	92.	0.0	Absent
July 15	0	0	0	62	176	.016	.018	.004	0.96	8.5	104.	0.0	Absent
July 15	0	1e	0	216	40	.006	.010	.002	1.40	7.5	106.	0.2	10.0 cc
July 15	0	0	0	222	180	.008	.022	.002	0.72	7.5	104.	0.0	Absent
July 22	0	0	0	223	21	.016	.034	.002	0.80	6.5	113.	0.0	Absent
July 22	0	1v	0			.008	.046	.0	1.00	6.5		0.0	Absent
Aug. 2	0	0	0	0	202	.016	.076	.001	.80	7.0		In 10.0 cc	
Aug. 2	0	0	0	0		.026	.028	.001	1.40	8.0		Absent	
Sept. 25	0	0	0	0		.010	.030	.001	1.20	9.5		In 10.0 cc	
Sept. 25	0	0	0	0		.024	.032	.001	1.20			Absent	
Oct. 8	0	0	0	0		.020	.024	.0	1.40	7.0	108.	Absent	
Dec. 10													
Average 1912			193	35	157	.012	.031	.005	.98	6.7	106.2	.04	
Average 1911			197	30	169	.014	.029	.0075	.63	6.3	114.2	0.023	
Average 1910			171	34	137	.014	.018	.00008	.92	3.7	92.5	0.2	
Average 1909			169	28	131	.009	.017	.00009	.71	3.9	97.5	0.0	

ICE SUPPLY

During the past year ice has been supplied in Plainfield from the following sources:

Watchung Lake,—an artificial body of water lying between the first and second ridge of the Watchung Mountains, fed by mountain streams from both mountains and also by springs along the western shore. Ice from this supply was sold by the Plainfield Ice and Supply Company and by James Miner.

Seeley's Pond,—another artificial body of water, situated between the first and second ridge, northwest of Scotch Plains, fed by two streams, one of which has its source on the outskirts of Summit and the other coming from a spring on the side of the second ridge very near the pond. This ice has been sold almost exclusively in the Netherwood section of the city by the People's Ice Company of Scotch Plains.

Both of these lakes have ideal surroundings, being in very slightly populated districts. The only objections to Watchung Lake is that it receives the major share of road drainage along the south-easterly side and there is a privy vault within twenty-five feet of one of the feeding streams.

Carbon Spring Lake, Pa., has supplied a great deal of the ice that has been sold by the Independent Ice Company and it has been of fairly good quality.

An entirely new source of ice supply has been obtained through Wadley & Goodenough from the Mountain Ice Company of Tobbyhanna, Pa. This ice is cut from a lake situated in the heart of the Pocono Mountains, Pennsylvania, and is 1,200 feet above sea level in a very slightly populated section.

The quality of this ice and also that from Seeley's Pond has been certified to by the Natural Ice Association of America.

Artificial Ice has been made by the Plainfield Ice & Supply Company at their plant on Arlington avenue. The can method is employed in freezing this ice and the water used is from the drilled well on the premises and is 240 feet deep. The water is filtered and then stored in a sterile tank before being run into the cans in the refrigerating room. A pipe system keeps the ammonia solution in constant circulation around each can during the process of freezing. Sanitary methods are used throughout the plant by the company. New filters are being installed and the plant is undergoing a thorough renovation.

MILK SUPPLY

During the year 1912 the milk was distributed in the city by seventy-six dealers, divided as follows:

25 retailed by means of wagons.

38 sold from stores.

13 sold a few quarts only.

The names and addresses of the dealers holding permits at this date (December 31, 1912), are as follows:

Name	Address
Borden Condensed Milk Company	122 Madison Avenue
Bowden, Mrs. Mary	1525 West Third Street
Brokaw, J. I.	186 East Front Street
Debele, C. F.	R. F. D.
Dufford, Elijah	56 Jackson Avenue

Feller, Charles J.	52 Chatham Street
Goldfarb, S.	222 New Street
Henry W. P.	Fanwood
Kelly, Chris	824 Clinton Avenue
Knight, J. H.	1270 Park Avenue
Krog, R. H.	Fanwood
Lambert, W. E.	252 Watchung Avenue
Miller, Milton	118 Everett Place
Moffett, W. H.	1328 Watchung Avenue
Muller, Jos. F.	South Sterling
Peterson, Claus	1229 Cushing Road
Phillips, A. R.	212 Lee Place
Plainfield Milk & Cream Company	112 Watchung Avenue
Schanz, Charles	308 East Front Street
Snowden, J. H.	South Plainfield
Squires, C. W.	957 West Fourth Street
Templin, Hiram	37 Pearl Street
Voorhees, Mrs. A. P.	Box 732
Willwood Farms Dairy Company	143 Liberty St., New York City
Woodbrook Farms	Park and Bellevue Avenues

The Following Sell Milk from Stores

Alprien & Miller	330 Plainfield Avenue
Bedell, Jacob	659 West Fourth Street
Blimm, J. C.	263 East Third Street
Callahan, T. & Son	300 Richmond Street
Cantor, Mrs. Elizabeth	E. 4th St. & Washington St.
Clayson, James	234 West Second Street
Crook, Wm. S.	662 South Avenue
Cullen, Frank	1001 South Second Street
Dajohn, Louis	214 Richmond Street
Davis, E. W.	937 West Fourth Street
Farbman, Morris	520 West Third Street
Firstbrook, F. H.	116 West Front Street
Gilbert, R.	951 South Second Street
Henry, L. G.	140 Liberty Street
Jones, Robert Henry	546 East Third Street
Keenan, R. H.	445 East Fifth Street
Kline, Samuel	545 West Third Street
McDonough & Waldron	316 Liberty Street
Mann, Bernard	120 West Fourth Street
Mann, Solomon	921 West Third Street
Newmark, Abe S.	535 West Third Street
Paritz, Jacob	423 West 2nd St. & 322 Richmond St.
Pasto, Mary	319 Richmond Street
Pollock, Louis	653 West Third Street
Roger's Grocery Store	401 West Front Street
Rosenthal, H.	505 West Third Street
Sachar, Kussel	531 West Third Street
Schlick, Jacob	724 West Third Street
Siegel, Harris	527 West Third Street
Sharkey, S.	228 Richmond Street
Skinner, F. J.	146 Central Avenue
Smith, C. O.	400 Liberty Street
Smith, J. A. & Bro.	151 West Front Street

Williams, J. G. & Co.	257 West Front Street
Wilson, Miles	229 Plainfield Avenue
Wilson, W. W.	816 West Third St. & 1221 West Front St.
Zimmerman, Peter	347 Watchung Avenue
Zeitzuck, N. M.	403 Watchung Avenue

The Following Retail Only a Few Quarts

Brinkerhoff, E. M.	1041 Myrtle Avenue
Brown, James	1203 North Avenue
Burnley Farm	R. F. D. No. 1
Coughlin, Edward	857 Leland Avenue
Dealaman, Wm. J.	954 West Front Street
Gavin, E. P.	Box 390
Guttridge, James B.	1121 South Avenue
Martone, James	1325 Lake Street.
Norgand, Mr. J. H.	1406 Bradford Avenue
Perry, Dr. James L.	1130 West Seventh Street
Tingley, I. L.	109 Randolph Road
Vestergard, Mrs.	226 Leland Avenue
Wiegand, Mrs. N. E.	352 Sumner Avenue

Dairy Inspection

The matter of the milk supply is, we believe, one of the most important with which this department has to do, and our experience during the past year has shown us the importance of maintaining an unremitting and careful supervision over this work. Owing to several changes in the working force, it was impossible to have the inspections made with our usual regularity, but now that we have an inspector available for this purpose we hope to accomplish much in the way of improving the sanitary conditions under which the milk sold in Plainfield is produced and handled. The number of inspections made are tabulated below:

No. inspections of creameries	5
" " " dairies	229
" " " bottling places and store rooms.....	36
" " " stores from which milk is sold.....	40
" " " milk wagons	310

Total inspections in connection with milk supply..... 620

At the present time there are 184 dairies and 5 creameries supplying milk to Plainfield.

Dairy Scores

The average scores of the dairies which supplied milk in Plainfield during the year 1912 are tabulated according to their rating:

Total
Average Scores:

Woodbrook Farms	95.00
Phillips, A. R.	
Bottling Place	99.50
Creamery at Califon.....	98.00
Raritan Valley Farms.....	99.00
E. E. Cooper.....	84.00

F. F. Horton.....	78.00	
B. Meyer	99.00	92.91
Willswood Farms Dairy Company		
Creamery	100.00	
Average of 10 dairies at Flanders.....	81.80	90.90
Plainfield Milk & Cream Company		
Bottling Place	99.00	
Quaker Hill Farm.....	94.00	
Average of 32 dairies at Hampton Junction...	69.66	
Creamery at Hampton Junction.....	98.00	90.17
Hickory Grove Farm.....		90.00
Schanz, Charles		
Store Room	96.00	
J. W. & J. C. Welsh.....	96.00	
Average of 9 dairies at German Valley.....	75.00	89.00
Borden Condensed Milk Company		
Creamery at Ulster, Pa.....	99.00	
Average of 39 dairies at Ulster, Pa.....	78.55	88.78
Lambert, W. E.		
Bottling Place	92.00	
Phillips & Waldron.....	98.00	
Ten Eyck, A. W.....	80.50	
J. W. & J. C. Welsh.....	96.00	
Average of 9 dairies at German Valley.....	75.00	88.30
Knight, J. H.		
Bottling Place	99.00	
Emanuel Toneson	75.00	87.00
Squires, C. W.		
Store Room	90.00	
J. W. & J. C. Welsh.....	96.00	
Average of 9 dairies at German Valley.....	75.00	87.00
Dufford, Elijah		
Store Room	85.00	
J. W. & J. C. Welsh.....	96.00	
Average of 9 dairies at German Valley.....	75.00	85.33
Henry, W. P.		
Own Dairy	70.00	
Phillips & Waldron	98.00	84.00
Miller, J. F.		
Bottling Place	90.00	
Rossini Muller	76.50	83.25
Brokaw, J. I.		
Creamery	99.00	
F. C. Young.....	71.00	
I. S. Hill.....	75.00	
E. L. Blaufuss.....	83.50	
W. H. Higgins.....	77.50	
A. W. Ten Eyck.....	80.50	
J. W. Tiger.....	72.00	
J. H. Exton.....	73.00	
F. G. Sharp.....	78.00	
F. G. Sharp.....	74.00	78.35
Snowden, J. H.		

Bottling Place	93.00	
E. R. Wooden	65.75	
Frazer Suydam	68.50	75.75
Debele, C. F.		75.50
Feller, Charles J.		
Bottling Place	97.00	
Rube Codington	68.00	
G. W. Nuss	61.50	
F. Wiegand	81.00	
Minard Smith	67.50	
Franklin Codington	67.50	73.75
Moffett, W. H.		
Own Dairy	71.00	
G. E. Elbersen	75.00	73.00
Templin, Hiram		
Bottling Place	95.00	
Frank Stiles	75.00	
William Munagh	67.00	
Fryhofer, C. W.	68.00	
Vanderveer, H. C.	66.50	
McGrath, J.	77.00	
Cornish, Charles	62.00	72.94
Voorhees, A. P.		
Own Dairy	73.50	
H. F. Jennings	69.00	71.25
Kelly, Chris		
Own Dairy	68.00	
H. W. Gennerick	70.00	69.00
*Herberman, J. A		
Bottling Place	90.00	
John Bowers	67.00	
C. Giddes	69.00	
C. L. Pollock	69.00	
F. P. Codington	64.00	71.80
*Miller, Milton		
Bottling Place	87.00	
Phillips & Waldron	98.00	92.50
*Sold out to Borden.		
*Out.		

The Following Table Shows the Average Dairy Scores for the Past Four Years

	1909	1910	1911	1912
Woodbrook Farms	98.88	98.88	99.50	95.00
Hickory Grove Farm	86.50	89.00	94.60	90.00
*Miller, Milton		85.50	86.50	92.50
Squires, C. W.	76.43	80.40	78.75	87.00
Knight, J. H.	75.68	79.75	71.98	87.00
Henry, Wm. P.	58.30	79.75	70.20	84.00
Feller, C. W.	71.88	78.42	83.90	73.75
Willswood Farms Dairy Company	69.99	78.13	87.75	90.90
Peterson, Claus	74.50	77.40	70.20	76.50
Schanz, Charles	76.42	76.06	82.52	89.00
Moffett, W. H.	68.40	76.05	76.55	73.00

Dufford, Elijah		75.90	80.13	85.33
Brokaw, J. I.	68.73	75.48	76.48	78.35
Debele, C. F.	70.70	75.20	76.10	75.50
Voorhees, A. P.	72.90	75.00	77.10	71.25
Phillips, A. R.	67.55	74.82	86.12	92.91
Templin, Hiram W.	74.38	72.32	76.47	72.94
*Herbermann, J. A.	63.35	71.52	72.08	71.80
*Muller, Mrs. R.	76.50	71.30	72.40	83.25
Kelly, Chris	66.30	67.70	68.30	69.00
Plainfield Milk & Cream Company....	51.76	65.08	89.95	90.17
Snowden, J. H.			73.36	75.75
Borden Condensed Milk Company....				88.78
Lambert, W. E.				88.30
		<hr/>	<hr/>	<hr/>
		72.79	77.39	79.94
				82.58

*Out.

*Sold out to Borden.

*Milk now being sold by J. F. Muller.

Summary of Scores

Dairies					1909	1910	1911	1912
No. having average scores of 90—100%					5	7	7	10
" " " " " 80—90					11	17	17	22
" " " " " 70—80					36	38	54	62
" " " " " 60—70					36	46	49	32
" " " " " 50—60					43	20	18	9
" " " " " Below 50					19	5	2	0
Totals					<hr/> 150	<hr/> 133	<hr/> 147	<hr/> 135
Bottling Places								
No. having average score of 90—100%					11	9	9	8
" " " " " 80—90					1	5	3	0
" " " " " 70—80					1	1	1	0
Totals					<hr/> 13	<hr/> 15	<hr/> 13	<hr/> 8
Creameries								
No. having average score of 90—100%					3	4	3	7
" " " " " 80—90					0	0	1	0
Totals					<hr/> 3	<hr/> 4	<hr/> 4	<hr/> 7

Milk Analysis

Samples were collected from the regular retailers, as usual, and analyzed. The average analysis compared very favorably with that of the previous years, and the bacterial count was considerably lower than in 1911. The total number of samples of milk and cream analyzed is 382, divided as follows:

No. samples of milk from regular dealers.....	308
No. samples of milk brought to the laboratory or analyzed for special analysis	61
No. samples of cream from regular dealers.....	11
No. samples of cream brought to the laboratory.....	2

382

The result of these analyses will be found in the tables which follow:

MILK ANALYSES—1912

		Solids Specific Bacteria					
Date		Fats	Solids	Not Fats	Gravity	Per CC	Sediment
Borden Condensed Milk Company							
Mar.	20	3.95	12.85	8.90	1.0333	44,000	None
Apr.	29	3.8	12.82	9.02	1.0327	39,000	None
May	21	4.0	13.01	9.01	1.0336	48,000	None
June	10	4.2	13.20	9.00	1.0354	39,000	None
July	18	3.9	12.79	8.89	1.0333	61,000	Very, Very Slight
Aug.	14	4.0	12.85	8.85	1.0333	25,000	Very Slight
Sept.	19	4.15	13.23	9.08	1.0330	30,000	None
Oct.	28	4.4	13.42	9.02	1.0324	54,000	Slight
Nov.	25	3.9	12.94	9.04	1.0330	25,000	None
Dec.	21	4.1	12.83	8.73	1.0319	18,000	Slight

J. I. Brokaw

Jan. 15	3.8	12.34	8.54		1.0319	20,000	Much
Feb. 28	3.3	12.32	9.02		1.0333	90,000	Much
Mar. 20	3.3	12.11	8.81		1.0307	90,000	Slight
Apr. 29	2.9	10.50	7.60		1.0324	87,000	Considerable
May 12	4.1	13.10	9.00		1.0307	91,000	Very Much
June 10	3.8	12.71	8.91		1.0321	78,000	Much
July 25	4.1	12.79	8.69		1.0327	93,000	Very Much
Aug. 28	3.2	11.59	8.39		1.0310	73,000	Considerable
Sept. 19	4.45	13.20	8.75		1.0327	63,000	Very, Very Much
Oct. 31	3.8	12.66	8.86		1.0321	114,000	Considerable
Nov. 25	4.6	13.33	8.73		1.0310	20,000	Considerable
Dec. 21	3.7	11.75	8.05		1.0292	41,000	Considerable

C. F. Debele

Jan. 22	3.8	14.32	10.52		1.0351	130,000	Considerable
Feb. 19	4.0	14.52	10.52		1.0357	26,000	Slight
Mar. 19	4.3	13.33	9.03		1.0339	29,000	Very Slight
Apr. 22	4.7	14.96	10.26		1.0352	27,000	Slight
May 12	4.6	13.69	9.09		1.0345	27,000	Very Much
June 10	4.75	13.86	9.11		1.0342	28,000	Considerable
July 18	4.4	13.36	8.96		1.0327	32,000	Considerable
Aug. 28	4.2	13.20	9.00		1.0301	30,000	Considerable
Sept. 27	4.7	13.76	9.06		1.0336	30,000	Considerable
Oct. 28	4.6	13.78	9.18		1.0330	17,000	Considerable
Nov. 6	4.0	12.78	8.78		1.0327	10,000	Slight
Dec. 16	4.4	13.64	9.24		1.0339	16,000	Considerable

Date	Fats	Solids	Solids Not Fats	Specific Gravity	Bacteria Per CC	Sediment
Elijah Dufford						
Jan. 16	4.0	13.64	9.64	1.0324	16,000	Considerable
Feb. 19	3.4	12.42	9.02	1.0333	30,000	Slight
Mar. 11	3.7	12.59	8.89	1.0336	60,000	Slight
Apr. 23	3.5	12.22	8.72	1.0319	63,000	Considerable
May 13	3.9	12.83	8.93	1.0336	66,000	Considerable
June 11	4.4	13.42	9.02	1.0330	51,000	Slight
July 16	3.5	12.70	9.20	1.0336	59,000	Slight
Aug. 14	3.9	12.76	8.86	1.0316	40,000	Very Slight
Sept. 28	4.1	12.95	8.85	1.0327	59,000	Slight
Oct. 28	3.4	11.97	8.57	1.0316	83,000	Slight
Nov. 25	3.8	12.39	8.59	1.0316	11,000	Slight
Dec. 16	4.3	13.86	9.56	1.0319	149,000	Slight
Charles J. Feller						
Jan. 16	4.0	13.84	9.84	1.0336	11,000	Much
Feb. 19	3.6	12.44	8.84	1.0319	30,000	Considerable
Mar. 19	4.1	13.01	8.91	1.0319	41,000	Slight
Apr. 22	3.4	13.11	9.71	1.0339	51,000	Slight
May 13	4.3	13.23	8.93	1.0319	46,000	Slight
June 10	3.4	12.34	8.94	1.0313	43,000	Considerable
July 22	3.8	13.17	9.37	1.0339	76,000	Very Much
Aug. 14	3.4	12.00	8.60	1.0327	31,000	Very Much
Sept. 19	3.4	12.17	8.77	1.0330	49,000	Much
Oct. 28	5.0	13.38	8.38	1.0336	90,000	Very Much
Nov. 29	4.3	12.83	8.53	1.0316	67,000	Considerable
Dec. 16	3.8	12.44	8.64	1.0321	14,000	Slight
William P. Henry						
Jan. 15	4.0	12.83	8.83	1.0316	68,000	Considerable
Feb. 19	3.5	11.90	8.40	1.0327	69,000	Slight
Mar. 11	3.4	12.29	8.89	1.0304	60,000	Considerable
Apr. 1	3.4	12.00	8.60	1.0313	73,000	Very, Very Much
May 13	3.2	12.06	8.86	1.0313	72,000	Considerable
June 10	3.3	12.20	8.90	1.0346	54,000	Very Much
July 18	2.6	10.06	7.46	1.0292	90,000	Very, Very Much
Aug. 14	3.0	11.27	8.27	1.0316	190,000	Sand
Sept. 27	3.6	12.55	8.95	1.0333	30,000	Slight
Oct. 28	3.4	11.72	8.32	1.0301	76,000	Considerable
Dec. 2	3.6	12.05	8.45	1.0301	122,000	Slight
Dec. 9	4.0	12.38	8.38	1.0310	66,000	Much
J. A. Herberman						
Jan. 22	3.2	12.04	8.84	1.0319	150,000	Much
Feb. 20	3.6	12.00	8.40	1.0313	70,000	Much
Chris Kelly						
Jan. 16	4.6	14.42	9.82	1.0330	4,000	Slight
Feb. 20	3.2	12.17	8.97	1.0348	27,000	Slight
Mar. 11	4.5	13.49	8.99	1.0316	14,900	Very Much

Date	Fats	Solids	Solids Not Fats	Specific Gravity	Bacteria Per CC	Sediment
Apr. 28	3.5	12.14	8.64	1.0319	22,000	Very Much
May 13	3.6	12.56	8.96	1.0313	36,000	Considerable
June 12	3.8	12.76	8.96	1.0310	60,000	None
July 18	3.9	12.66	8.76	1.0319	46,000	Considerable
Aug. 28	4.5	13.23	8.73	1.0316	29,000	Considerable
Sept. 28	3.6	12.32	8.72	1.0307	39,000	Considerable
Oct. 28	4.2	12.68	8.48	1.0313	65,000	Considerable
Dec. 2	4.9	13.50	8.60	1.0304	6,000	Considerable
Dec. 12	4.0	12.72	8.72	1.0351	4,000	Considerable

J. H. Knight

Jan. 15	3.8	12.56	8.76	1.0316	90,000	Considerable
Feb. 27	3.7	13.09	9.39	1.0327	80,000	Considerable
Mar. 11	3.3	12.20	8.90	1.0301	73,000	Very Much
Apr. 29	3.0	11.07	8.07	1.0301	49,000	Very Much
May 13	3.6	12.48	8.88	1.0292	59,000	Considerable
June 10	3.3	12.21	8.91	1.0336	58,000	Much
July 15	3.0	11.22	8.22	1.0336	65,000	Slight
Aug. 28	4.3	12.58	8.28	1.0316	9,000	Very Much
Sept. 25	4.6	13.02	8.42	1.0307	66,000	Considerable
Oct. 22	5.6	15.00	9.40	1.0313	43,000	Very Much
Dec. 2	3.6	11.84	8.24	1.0304	31,000	Very Much
Dec. 9	4.2	12.16	7.96	1.0284	32,000	Considerable

Hickory Grove Farm (R. H. Krog)

Jan. 22	3.8	12.79	8.99	1.0336	2,500	None
Feb. 19	3.2	12.72	9.52	1.0342	8,200	None
Mar. 11	4.0	12.96	8.96	1.0336	4,900	None
Apr. 23	3.2	11.60	8.40	1.0316	3,900	Slight
May 21	3.5	12.43	8.93	1.0301	5,000	None
June 11	3.6	12.56	8.96	1.0319	7,000	None
July 16	3.5	12.04	8.54	1.0324	6,900	None
Aug. 16	3.4	11.69	8.29	1.0327	4,700	Slight
Sept. 28	3.0	11.72	8.72	1.0333	7,000	Slight
Oct. 28	3.3	11.70	8.40	1.0310	7,600	Slight
Dec. 9	3.6	12.27	8.67	1.0321	2,800	Very Slight
Dec. 16	3.9	12.00	8.10	1.0310	3,500	Very, Very Slight

W. E. Lambert

Jan. 22	3.4	12.26	8.86	1.0324	245,000	Slight
Feb. 19	3.3	12.15	8.85	1.0319	80,000	Slight
Mar. 19	3.3	12.20	8.90	1.0316	90,000	Slight
Apr. 24	3.5	12.24	8.74	1.0310	76,000	Considerable
May 13	4.4	13.31	8.97	1.0313	70,000	Slight
June 20	4.2	13.24	9.04	1.0336	60,000	Very Slight
July 15	3.5	11.98	8.48	1.0319	96,000	Slight
Aug. 14	3.8	12.08	8.28	1.0316	79,000	Very, Very Much
Sept. 27	3.8	12.20	8.40	1.0324	63,000	Slight
Oct. 22	4.9	13.74	8.84	1.0304	69,000	Considerable
Nov. 8	4.0	12.40	8.40	1.0295	84,000	Considerable
Dec. 12	3.4	11.42	8.02	1.0287	26,000	Considerable

Date	Fats	Solids	Solids Not Fats	Specific Gravity	Bacteria Per CC	Sediment
Milton Miller						
Feb. 19	3.6	13.08	9.48	1.0336	70,000	Considerable
Mar. 20	3.4	12.20	8.80	1.0307	80,000	Considerable
Apr. 22	2.9	11.45	8.55	1.0310	60,000	Slight
May 20	4.5	13.54	9.04	1.0330	71,000	Much
June 10	3.6	12.56	8.96	1.0327	49,000	Much

W. H. Moffett

Jan. 16	4.2	14.52	10.32	1.0319	2,000	Slight
Feb. 19	4.5	13.84	9.34	1.0319	14,000	Very Slight
Mar. 11	3.5	12.41	8.91	1.0273	19,700	None
Apr. 24	5.2	14.85	9.65	1.0319	8,900	Slight
May 21	4.0	13.04	9.04	1.0330	13,000	Very Slight
June 10	3.8	12.74	8.94	1.0351	30,000	Slight
July 16	3.2	12.00	8.80	1.0327	24,000	Considerable
Aug. 28	3.5	12.37	8.87	1.0298	16,000	Considerable
Sept. 19	4.0	12.27	8.27	1.0330	21,000	Very Slight
Oct. 30	4.3	12.20	7.90	1.0298	26,000	Considerable
Dec. 2	5.2	14.19	8.99	1.0327	20,000	Slight
Dec. 16	3.8	12.90	9.10	1.0339	20,000	Considerable

J. F. Muller

Jan. 16	3.4	12.12	8.72	1.0295	5,000	Considerable
Feb. 20	4.2	13.30	9.10	1.0342	21,000	Very Slight
Mar. 11	4.6	13.63	9.03	1.0330	33,000	Very Slight
Apr. 23	3.9	12.24	8.34	1.0310	17,000	Slight
May 24	4.0	13.00	9.00	1.0319	34,000	Very, Very Slight
June 12	4.2	13.19	8.99	1.0329	24,000	None
July 22	3.4	11.50	8.10	1.0319	69,000	Slight
Aug. 27	3.4	12.40	9.00	1.0333	116,000	Considerable
Sept. 19	3.5	11.36	7.86	1.0290	30,000	Considerable
Oct. 22	3.3	11.16	7.86	1.0284	40,000	Slight
Nov. 27	4.2	12.78	8.58	1.0304	48,000	Very, Very Slight
Dec. 16	4.4	12.35	7.95	1.0304	8,000	Slight

Claus Peterson

Jan. 22	4.0	13.90	9.90	1.0345	168,000	Very Slight
Feb. 20	3.8	12.94	9.14	1.0353	19,000	Slight
Mar. 11	3.7	12.64	8.94	1.0339	21,100	Very Slight
Apr. 1	4.0	13.47	9.47	1.0336	24,000	Very Slight
May 21	5.2	14.36	9.16	1.0330	13,000	Very Slight
June 12	5.4	14.61	9.21	1.0324	19,000	None
July 22	3.6	12.49	8.89	1.0345	21,000	Considerable
Aug. 16	4.4	13.32	8.92	1.0321	15,000	Considerable
Sept. 28	4.5	13.52	9.02	1.0339	24,000	None
Oct. 30	3.8	12.59	8.79	1.0313	14,900	Considerable
Nov. 29	4.7	12.81	8.11	1.0348	128,000	Considerable
Dec. 12	4.8	12.73	7.93	1.0327	14,000	Considerable

Date	Fats	Solids	Solids Not Fats	Specific Gravity	Bacteria Per CC	Sediment
A. R. Phillips (Raritan Valley Farms Certified)						
Jan. 22	3.2	12.00	8.80	1.0327	4,100	Slight
Feb. 20	3.5	12.46	8.96	1.0327	4,600	None
Mar. 19	4.6	13.66	9.06	1.0321	2,300	None
Apr. 29	3.4	12.29	8.89	1.0342	1,400	None
May 21	4.3	13.43	9.13	1.0327	3,000	None
June 12	4.3	13.31	9.01	1.0324	4,600	None
July 18	4.0	12.39	8.39	1.0313	5,400	Very Slight
Aug. 16	4.2	12.45	8.25	1.0319	2,100	Very Slight
Sept. 19	4.2	12.73	8.53	1.0321	1,900	Slight
Oct. 30	4.4	13.27	8.87	1.0313	3,400	Very Slight
Nov. 8	4.6	12.96	8.36	1.0310	2,100	Slight
Dec. 12	4.1	12.78	8.68	1.0310	1,000	None

A. R. Phillips
(Extra Quality)

Jan. 22	3.8	12.62	8.82	1.0330	25,000	Considerable
Feb. 20	3.4	12.48	9.08	1.0342	10,300	Very Slight
Mar. 19	4.1	13.11	9.01	1.0324	11,400	Slight
Apr. 19	4.1	13.49	9.39	1.0333	5,700	None
May 20	4.2	13.23	9.03	1.0333	10,000	None
June 10	3.9	12.88	8.98	1.0336	14,000	Slight
July 16	3.6	12.20	8.60	1.0321	11,000	Very Slight
Aug. 16	4.0	12.60	8.60	1.0333	11,000	Slight
Sept. 19	4.4	13.07	8.67	1.0324	31,500	Considerable
Oct. 22	3.9	12.83	8.93	1.0321	32,000	Much
Nov. 6	3.9	12.79	8.89	1.0324	9,000	Much
Dec. 9	3.6	12.68	9.08	1.0327	14,000	Slight

A. R. Phillips
(Monogram)

Jan. 15	3.6	13.50	9.90	1.0333	48,000	None
Feb. 20	3.4	12.43	9.03	1.0327	63,000	Considerable
Mar. 19	3.7	12.69	8.99	1.0316	70,000	Considerable
Apr. 23	3.1	11.64	8.54	1.0307	76,000	Slight
May 20	3.5	12.38	8.88	1.0333	62,000	Slight
June 10	3.4	12.30	8.90	1.0345	64,000	Very Slight
July 16	3.4	11.03	7.63	1.0324	78,000	Very Slight
Aug. 16	3.6	11.52	7.92	1.0310	54,000	Slight
Sept. 19	3.8	12.20	8.40	1.0313	77,500	Slight
Oct. 22	3.7	12.22	8.52	1.0298	70,000	Very Very V. Much
Nov. 6	3.4	11.82	8.42	1.0313	13,000	Slight
Dec. 21	3.7	12.32	8.62	1.0319	11,000	Slight

		Solids Specific Bacteria					
Date		Fats	Solids	Not Fats	Gravity	Per CC	Sediment
Plainfield Milk & Cream Co.							
(Quaker Hill Farm)							
Jan.	15	4.0	14.26	10.26	1.0342	18,900	None
Feb.	19	4.3	14.08	9.78	1.0342	7,900	Slight
Mar.	19	4.25	13.28	9.03	1.0336	4,700	None
Apr.	23	4.6	14.07	9.47	1.0348	3,000	Very Slight
May	20	4.3	13.41	9.11	1.0330	8,000	Slight
June	10	4.3	13.32	9.02	1.0336	6,800	None
July	18	4.4	13.40	9.00	1.0330	7,800	Slight
Aug.	16	4.5	13.44	8.94	1.0330	3,900	Slight
Sept.	27	4.2	13.26	9.06	1.0321	8,500	Very Slight
Oct.	28	5.0	14.04	9.04	1.0330	11,300	Considerable
Nov.	25	4.9	14.15	9.25	1.0342	1,600	Slight
Dec.	16	4.2	13.74	9.54	1.0348	5,900	Slight

Plainfield Milk & Cream Co.
(Regular)

Jan. 15	3.4	12.87	9.47	1.0333	14,000	Slight
Feb. 19	3.4	12.24	8.84	1.0324	62,000	Slight
Mar. 19	3.45	12.15	8.70	1.0313	53,000	Slight
Apr. 23	3.5	12.10	8.60	1.0327	59,000	Slight
May 20	3.7	12.64	8.94	1.0327	60,000	Slight
June 10	3.4	12.34	8.94	1.0345	46,000	Considerable
July 18	4.4	13.57	9.17	1.0330	76,000	Slight
Aug. 16	3.6	12.10	8.50	1.0327	69,000	Much
Sept. 27	3.8	12.65	8.85	1.0319	46,000	Slight
Oct. 28	3.8	12.90	9.10	1.0316	59,000	Much
Nov. 25	3.9	12.51	8.61	1.0310	64,000	Much
Dec. 21	4.3	12.91	8.61	1.0327	67,000	Considerable

Charles Schanz

Jan. 16	3.4	13.04	9.64	1.0351	80,000	Considerable
Feb. 19	3.1	11.68	8.58	1.0307	50,000	Considerable
Mar. 11	3.5	12.37	8.87	1.0333	62,000	Slight
Apr. 22	3.7	13.00	9.30	1.0336	34,000	Slight
May 20	4.3	13.20	8.90	1.0321	63,000	Considerable
June 10	4.6	13.65	9.05	1.0324	60,000	Very Much
July 15	4.0	12.65	8.65	1.0321	71,000	Very Slight
Aug. 27	4.6	13.41	8.81	1.0333	40,000	Considerable
Sept. 25	3.8	12.48	8.68	1.0313	70,000	Slight
Oct. 22	4.0	12.63	8.63	1.0310	76,000	Much
Nov. 27	3.8	12.04	8.24	1.0319	57,000	Considerable
Dec. 9	3.6	12.57	8.97	1.0342	31,000	Very Slight

				Solids	Specific	Bacteria	
Date		Fats	Solids	Not Fats	Gravity	Per CC	Sediment
A. P. Voorhees							
Jan.	15	4.0	12.94	8.94	1.0324	82,000	Much
Feb.	20	3.6	12.71	9.11	1.0339	56,000	Slight
Mar.	11	3.4	12.20	8.80	1.0333	73,000	Slight
May	13	4.0	14.07	9.07	1.0313	53,000	Considerable
June	12	4.9	13.93	9.03	1.0339	68,000	Very Much
July	18	3.6	12.50	8.90	1.0327	83,000	Very Slight
Aug.	27	4.5	12.82	8.32	1.0313	8,000	Slight
Sept.	27	4.5	13.40	8.90	1.0319	58,000	Slight
Oct.	31	5.0	13.74	8.74	1.0316	58,000	Slight
Nov.	29	5.0	14.22	9.22	1.0336	25,000	Slight
Dec.	21	4.7	13.88	9.18	1.0321	84,000	Considerable

Willswood Farms Dairy Co.

Jan. 15	3.6	12.83	9.23	1.0324	80,000	Much	
Feb. 19	4.0	12.60	8.60	1.0316	28,000	Slight	
Mar. 11	4.0	12.99	8.99	1.0304	42,000	Very Slight	
Apr. 22	3.5	12.54	9.04	1.0333	38,000	Slight	
May 13	4.0	12.96	8.96	1.0324	41,000	Slight	
June 10	3.8	12.77	8.97	1.0324	38,000	Very Slight	
July 16	3.7	12.12	8.42	1.0321	41,000	Very Slight	
Aug. 16	3.3	11.90	8.60	1.0327	32,000	Slight	
Sept. 28	3.8	12.60	8.80	1.0327	38,000	Slight	
Oct. 28	4.3	13.23	8.93	1.0319	63,000	Slight	
Nov. 25	4.0	12.80	8.80	1.0316	44,000	Very Slight	
Dec. 12	3.9	12.67	8.77	1.0310	24,000	Slight	

Woodbrook Farms

Jan. 16	4.4	13.72	9.32	1.0339	1,900	Slight	
Feb. 19	4.6	13.91	9.31	1.0345	7,600	None	
Mar. 20	4.7	13.74	9.04	1.0333	3,900	None	
Apr. 29	4.4	13.23	8.83	1.0339	2,600	Very Slight	
May 12	4.6	13.72	9.12	1.0327	4,600	None	
June 11	4.4	13.48	9.08	1.0330	6,000	None	
July 25	3.8	12.62	8.82	1.0330	6,000	Slight	
Aug. 28	4.0	12.44	8.44	1.0324	3,100	Slight	
Sept. 30	3.6	12.52	8.92	1.0339	8,300	Considerable	
Oct. 30	3.8	12.63	8.83	1.0330	9,300	Slight	
Nov. 25	4.6	13.87	9.27	1.0336	3,200	Very, Very Slight	
Dec. 21	4.4	13.36	8.96	1.0327	8,100	Very Slight	

		Solids		Specific	Bacteria		
Date		Fats	Solids	Not Fats	Gravity	Per CC	Sediment
J. H. Snowden							
Jan.	15	4.2	14.56	10.36	1.0333	3,000	Slight
Feb.	20	4.0	13.53	9.53	1.0336	35,000	Slight
Mar.	11	4.0	12.96	8.96	1.0319	41,000	Considerable
Apr.	22	3.5	13.20	9.70	1.0307	46,000	Considerable
May	12	3.8	12.89	9.09	1.0336	37,000	Very, Very Much
June	10	4.5	13.61	9.11	1.0333	34,000	Much
July	16	3.6	11.92	8.32	1.0313	43,000	Slight
Aug.	14	4.4	12.82	8.42	1.0304	12,000	Very Much
Sept.	30	4.9	14.18	9.28	1.0330	26,000	Considerable
Oct.	31	4.8	13.58	8.78	1.0324	53,000	Much
Nov.	27	4.0	12.70	8.70	1.0330	13,000	Considerable
Dec.	12	4.4	13.28	8.88	1.0321	9,000	Considerable

C. W. Squires

Jan. 16	3.6	12.26	8.66	1.0319	13,000	Very Much
Feb. 19	3.8	12.45	8.65	1.0339	24,000	Considerable
Mar. 11	3.9	12.86	8.96	1.0321	32,000	None
Apr. 22	3.8	13.13	9.33	1.0324	47,000	Considerable
May 13	4.5	13.40	8.90	1.0310	41,000	Slight
June 11	3.8	12.81	9.01	1.0342	53,000	Considerable
July 15	3.5	12.24	8.74	1.0333	29,000	Very Slight
Aug. 27	4.2	12.63	8.43	1.0327	67,000	Considerable
Sept. 19	4.0	12.81	8.81	1.0319	33,000	Considerable
Oct. 22	3.6	13.07	8.47	1.0301	40,000	Very Much
Dec. 2	3.6	12.48	8.88	1.0321	21,000	Slight
Dec. 9	3.8	11.76	7.96	1.0301	51,000	Slight

E. C. Swenson

Jan. 22	4.2	13.90	9.70	1.0336	80,000	Slight
Feb. 20	3.3	13.23	9.93	1.0319	70,000	None
Mar. 11	3.4	12.27	8.87	1.0319	80,000	Very Much
Apr. 23	3.6	12.30	8.70	1.0298	82,000	Very Much

Hiram Templin

Jan. 16	3.6	12.98	9.38	1.0330	13,000	Slight
Feb. 19	3.8	12.92	9.12	1.0327	31,000	Slight
Mar. 11	3.9	12.84	8.94	1.0313	21,000	None
Apr. 24	3.4	11.92	8.52	1.0304	35,000	Very Slight
May 21	3.9	12.89	8.99	1.0324	46,000	Very Slight
June 10	4.0	12.98	8.99	1.0316	33,000	Slight
July 16	3.7	12.10	8.40	1.0324	52,000	Slight
Aug. 14	3.6	12.20	8.60	1.0333	438,000	Slight
Sept. 27	4.3	12.68	8.38	1.0307	53,000	Slight
Oct. 22	4.0	12.64	8.64	1.0307	63,000	Much
Nov. 25	3.6	12.33	8.73	1.0316	42,000	Very Dirty
Dec. 9	4.6	13.57	8.97	1.0304	11,000	Slight

**THE FOLLOWING TABLE GIVES THE AVERAGE OF EACH
DEALER FOR THE ENTIRE YEAR TABULATED
IN ALPHABETICAL ORDER:**

Name	Fats	Solids	Not Fats	Specific Gravity	Bacteria Per C.C.
Borden Condensed Milk Co.....	4.04	12.99	8.95	1.0316	38 300
Brokaw, J. I.	3.76	12.37	8.61	1.0332	71 700
Debele, C. F.	4.37	13.77	9.40	1.0337	33 600
Dufford, Elijah	3.82	12.81	8.99	1.0325	57 300
Feller, Chas. J.	3.88	12.83	8.95	1.0327	45 800
Henry, Wm. P.	3.42	11.94	8.52	1.0314	80 800
Herberman, J. A.	3.40	12.02	8.62	1.0316	110 000
Kelley, Chris	4.03	12.89	8.86	1.0321	29 400
Knight, James	3.83	12.45	8.62	1.0311	54 600
Krog, R. H.	3.50	12.21	8.71	1.0323	5 300
Lambert, W. E.	3.79	12.43	8.64	1.0314	86 500
Miller, Milton,	3.60	12.56	8.96	1.0322	66 000
Moffett, W. H.	4.10	13.11	9.01	1.0319	18 500
Muller, J. F.	3.87	12.41	8.54	1.0307	37 000
Peterson, Claus	4.33	13.28	8.95	1.0335	40 100
Phillips, A. R. (Monogram)...	3.53	12.17	8.64	1.0320	57 100
Phillips, (Extra Quality)	3.90	12.83	8.93	1.0329	15 400
Phillips (Raritan Valley Farms Certified)	4.07	12.81	8.74	1.0321	3 000
Plainfield Milk & Cream Co. (Regular)	3.72	12.58	8.86	1.0325	56 250
Plainfield Milk & Cream Co. (Quaker Hill)	4.41	13.70	9.29	1.0336	7 400
Schanz, Charles	3.86	12.92	8.86	1.0326	57 800
Snowden, J. H.	4.17	13.27	9.10	1.0324	29 300
Swenson, E. C.	3.62	12.92	9.30	1.0318	78 000
Squires, C. W.	3.84	12.57	8.73	1.0321	37 600
Templin, Hiram W.	3.86	12.67	8.81	1.0317	69 800
Voorhees, Mrs. A. P.	4.38	13.31	8.93	1.0325	58 900
Willswood Farms Dairy Co. .	3.83	12.67	8.84	1.0320	42 400
Woodbrook Farms	4.28	13.27	8.99	1.0333	5 400

TABLES SHOWING RATING OF DEALERS FROM WHOM TWELVE SAMPLES OF MILK WERE TAKEN

The tabulation in the first instance is in the order of the average bacteria; in the second, according to the average fats and solids.

Name	Bacteria Per C. C.	Name	Fats	Solids
1. Phillips, A. R.....	3,000	Plfd. Milk & Cream Co..	4.41	13.70
(Rar. Val. Certified Milk)		(Quaker Hill)		
2. Hickory Grove Farm..	5,300	Debele, C. F.....	4.37	13.77
(R. H. Krog)		Peterson, Claus.....	4.33	13.28
3. Woodbrook Farms....	5,400	Woodbrook Farms.....	4.28	13.27
4. Plfd. Milk & Cream Co.	7,400	Snowden, J. H.....	4.17	13.27
(Quaker Hill)		Moffett, W. H.....	4.10	13.11
5. Phillips, A. R.....	15,400	Phillips, A. R.....	4.07	12.81
(Extra Quality)		(Rar. Val. Farms Certified)		
6. Moffett, W. H.....	18,500	Kelley, Chris.....	4.03	12.89
7. Snowden, J. H.....	29,300	Phillips, A. R.....	3.90	12.83
8. Kelley, Chris.....	29,400	(Extra Quality)		
9. Debele, C. F.....	33,600	Feller, Charles.....	3.88	12.83
10. Muller, J. F.....	37,000	Muller, J. H.....	3.87	12.41
11. Squires, C. W.....	37,600	Schanz, Charles.....	3.86	12.72
12. Peterson, Claus.....	40,100	Templin, H. W.....	3.86	12.67
13. Willswood Farms.....	42,400	Squires, C. W.....	3.84	12.57
14. Feller, Charles.....	45,800	Willswood Farms.....	3.83	12.67
15. Knight, J. H.....	54,600	Knight, J. H.....	3.83	12.45
16. Plfd. Milk & Cream Co.	56,250	Dufford, Elijah.....	3.82	12.31
(Reg.)		Lambert, W. E.....	3.79	12.43
17. Phillips, A. R.....	57,108	Brokaw, J. I.....	3.76	12.37
18. Dufford, Elijah.....	57,500	Plfd. Milk & Cream Co..	3.72	12.58
19. Schanz, Charles.....	57,800	(Reg.)		
20. Templin, Hiram W....	69,800	Phillips, A. R.....	3.53	12.17
21. Brokaw, J. I.....	71,700	Hickory Grove Farm....	3.50	12.21
22. Henry, William P.....	80,800	(R. H. Krog)		
23. Lambert, W. E.....	86,500	Henry, William P.....	3.42	11.94

The following tables (arranged as above) give the average analysis of milk from dealers from whom less than twelve samples of milk were taken:

1. Borden Con'd Milk Co..	38,300	Voorhees, Mrs. A. P.....	4.38	13.31
2. Voorhees, Mrs. A. P.....	58,900	Swenson, E. C.....	3.62	12.92
3. Miller, Milton.....	66,000	Miller, Milton.....	3.60	12.56
4. Swenson, E. C.....	78,000	Herberman, J. H.....	3.40	12.02
5. Herberman, J. H.....	110,000	Borden Con'd Milk Co...	4.04	12.99

Average Analysis of All Samples of Milk for Past Eleven Years

Year	Fats	Solids	Solids Not Fats	Specific Gravity	Bacteria Per C.C.
1902	4.38	13.23	8.85	1.0321	128 553
1903	4.27	13.20	8.93	1.0310	63 461
1904	3.97	12.94	8.97	1.0310	97 891
1905	4.18	13.17	8.99	1.0307	43 500
1906	4.05	13.01	8.96	1.0307	142 311
1907	4.04	13.08	9.04	1.0321	90 911
1908	4.10	13.17	9.07	1.0327	51 887
1909	4.05	13.11	9.06	1.0327	43 864
1910	3.99	13.05	9.06	1.0327	38 720
1911	3.76	12.83	9.07	1.0321	130 669
1912	3.92	12.79	8.86	1.0486	42 826

Comparison of Bacterial Count of the Milks Sold During the Past Year with that of the Three Preceding Years

	1909	1910	1911	1912
No. containing less than 10,000 bacteria per c.c.....	17	28	57	59
" " 10,000—20,000 " " "	48	45	65	37
" " 20,000—30,000 " " "	67	66	31	33
" " 30,000—50,000 " " "	101	97	59	64
" " 50,000—100,000 " " "	112	108	60	104
" " 100,000—200,000 " " "	11	2	24	9
" " 200,000—500,000 " " "	1	0	19	2
" " Over 500,000 " " "	0	0	17	0
	<hr/> 357	<hr/> 346	<hr/> 332	<hr/> 308

Comparison of the Percentage of Fats and Solids with that of the Three Preceding Years

	1909	1910	1911	1912
No. samples containing less than 3 per cent. fats..	1	5	9	3
No. samples containing from 3 to 4 per cent. fats..	142	159	203	164
No. samples containing from 4 to 5 per cent. fats..	202	166	112	131
No. samples containing over 5 per cent. fats.....	12	16	8	10
	<hr/> 357	<hr/> 346	<hr/> 332	<hr/> 308

Plans for the continuation of the campaign against unsanitary conditions of all kinds have been formulated, and it is hoped that they will be carried out during the coming year with renewed vigor. These plans include a thorough survey of the city with a view to abolishing as many as possible of the remaining vaults and cesspools; to ascertaining the number and location of chicken yards and manure piles in order that the ordinances covering these matters may be more strictly enforced; and in fact to abate such nuisances as are of a more or less permanent nature. It is the purpose also to have the ordinance prohibiting spitting in public places strictly enforced, and if necessary to accomplish this, offenders taken into court and fined. Aside from the possibility of the transmission of disease in this manner, the habit should be repressed from a sense of decency.

In submitting the foregoing report your attention is called to the fact that it is very difficult to say just how much has been accomplished, for the work is chiefly of a preventative character. We believe, however, that it counts as a very important factor in the public welfare.

Respectfully submitted,

JOHN O'BRIEN, JR.,

Supervising Health Officer.

HARRIET O. MATTISON,
Acting Health Officer.

ANNUAL REPORT OF MEDICAL INSPECTOR

Plainfield, N. J., December 30, 1912.

To the Board of Health, City of Plainfield, N. J.

Gentlemen:—The following is submitted as my report for the year 1912:

Examinations were made in connection with communicable diseases, or of suspected cases, as follows:

Examinations in connection with Scarlet Fever.....	12	
“ “ “ “ suspected Scarlet Fever....	1	
“ “ “ “ syphilis	3	
“ “ “ “ erythema multiforme	10	
“ “ “ “ measles	1	
“ “ “ “ suspected varioloid	1	
“ “ “ “ suspected barber's itch	2	
“ “ “ “ chicken pox	3	
“ “ “ “ tuberculosis	5	
	—	38

In addition to the above, the following work was done:

Inspection in connection with circus.....	1	
Number specimens of blood taken for Wasserman Test.	1	
Number persons vaccinated	2	
Number patients given anti-toxin.....	2	
Number anti-rabic serum injections given.....	22	
	—	28
Total		66

Respectfully submitted,

JOHN H. CARMAN, Medical Inspector.

ANNUAL REPORT OF THE BACTERIOLOGIST—1912

Plainfield, N. J., December 30, 1912.

To the Board of Health, Plainfield, N. J.

Gentlemen: The following report of the diagnostic work for the year 1912 is respectfully submitted herewith.

A total of 293 specimens were examined, the results of which are tabulated below:

Diphtheria:

Positive	30	
Negative	89	—119

Tuberculosis:

Positive	21	
Negative	122	—143

Typhoid Fever:

Positive	0	
Negative	21	— 21

Gonorrhea:

Positive	2	
Negative	0—	2
Malaria:		
Positive	0	
Negative	4—	4
Pneumonia:		
Positive	1	
Negative	3—	4
		<hr/> 193

Respectfully submitted,

G. THORNTON LONGBOTHUM, M. D.,

Bacteriologist.

ANNUAL REPORT OF REGISTRAR OF VITAL STATISTICS—1912

December 30, 1912.

To the Board of Health, City of Plainfield, N. J.

Gentlemen: Returns were made to the Bureau of Vital Statistics, for the year 1912, as follows:

Marriages	181
Births	494
Still births	28
Deaths	298
Total	<hr/> 1,001

The succeeding tables will show the detailed information obtained from these returns:

Marriages

141 of the marriages were contracted by white persons, and the remaining 40 by colored. The rate per thousand of the population was 8.23. 200 marriage licenses were issued.

Births

By Color		By Sexes	
White	446	Male	259
Colored	48	Female	235
Total	<hr/> 494	Total	<hr/> 494

The birth rate was 22.45.

Still Births

28 still-births were reported during the year, 21 of which were white and 7 colored; 18 were male and 10 female. The rate was 1.27.

Deaths

By Color		By Sexes	
White	258	Male	142
Colored	40	Female	156
Total	<hr/> 298	Total	<hr/> 298

Deaths by Ages

Under one month	22
One month to one year.....	39
One year to two years.....	12
Two to five years.....	9
Five to twenty years.....	18
Twenty to thirty years.....	19
Thirty to forty years.....	25
Forty to fifty years.....	28
Fifty to sixty years.....	23
Sixty to seventy years.....	36
Over seventy years.....	67

298

Twenty-two of the deaths were among non-residents. The death rate for 1912 was 13.55 per thousand population.

CAUSES OF DEATH BY AGES

The following classification has been made in accordance with the International list of causes of deaths:

CAUSES OF DEATH	AGE										
	Under 1 mo.	1 mo.-1 yr.	1 yr.-2 yrs.	2-5	5-20	20-30	30-40	40-50	50-60	60-70	Over 70
I. GENERAL DISEASES											
1. Typhoid Fever	1	1	..	..	..	2
4. Malaria	1	1
8. Whooping Cough	1	..	..	..	..	..	..	..	..	1
9. Diphtheria	1	..	..	1	..	..	..	..	..	2
14. Dysentery	1	..	..	..	..	..	..	..	1
18. Erysipelas	1	..	1
28. Tuberculosis of lungs.....	1	1	4	4	1	2	15
29. Acute Miliary Tuberculosis.	1	..	..	..	..	..	..	1
30. Tubercular Meningitis.....	..	1	2	..	..	..	..	..	..	..	3
31. Abdominal Tuberculosis	1	..	..	..	..	..	..	1
40. Cancer	1	1	8	15
41. Cancer	1	..	1	1	4
42. Cancer	1	..	1
43. Cancer	1	2
45. Cancer	1	..	3
46. Tumor	1	..	..	..	..	..	1
50. Diabetes	1	1	..	..	..	2
51. Goitre	1	..	..	..	..	1
52. Addison's Disease	1	..	1
56. Alcoholism	1	..	..	1
Total Class I.....	..	3	3	2	3	4	7	6	5	14	59

CAUSES OF DEATH				AGE											
				Under 1 mo.	1 mo.-1 yr.	1 yr.-2 yrs.	2-5	5-20	20-30	30-40	40-50	50-60	60-70	Over 70	TOTAL
II. DISEASES OF THE NERVOUS SYSTEM AND OF THE ORGANS OF SPECIAL SENSES.															
60.	Encephalitis	..	..	..	..	..	..	..	..	1	..	..	..	..	1
61.	Simple Meningitis	..	1	..	..	..	..	..	1	..	..	..	..	..	2
64.	Cerebral Hemorrhage	1	..	..	..	1	..	..	2	2	1	4	14	25	2
65.	Softening of Brain	..	..	..	..	..	..	..	..	..	2	..	..	..	2
66.	Paralysis	..	..	..	..	..	..	..	..	..	1	1	..	..	2
74.	Hydrocephalus	..	..	..	..	..	..	..	..	1	..	..	..	..	1
76.	Purulent otitis media	1	..	..	..	..	..	..	..	..	..	..	..	..	1
Total Class II		2	1	..	..	1	1	3	3	4	5	14	34		
III. DISEASES OF THE CIRCULATORY SYSTEM.															
77.	Pericarditis	..	..	..	..	..	..	1	..	..	..	..	..	..	1
78.	Acute Endocarditis	..	..	..	..	..	..	1	..	1	..	..	..	..	2
79.	Heart Disease	..	..	..	..	2	2	4	3	1	2	9	23		
80.	Angina Pectoris	..	..	..	..	..	..	..	..	1	..	2	3		
81.	Disease of Arteries	..	..	..	..	..	..	..	..	1	1	1	3		
82.	Embolism and Thrombosis	..	..	..	..	..	..	..	..	1	..	..	..	..	1
85.	Hemorrhage	1	..	..	..	..	..	..	1	..	..	..	..	..	2
Total Class III		1	..	..	..	2	4	4	5	4	3	12	35		
IV. DISEASES OF THE RESPIRATORY SYSTEM.															
89.	Acute Bronchitis	..	1	..	..	1	..	..	1	..	..	1	4		
91.	Broncho Pneumonia	..	2	2	..	..	..	..	..	..	..	2	6		
92.	Pneumonia	..	5	6	3	1	2	2	1	2	2	5	29		
94.	Pulmonary Congestion	..	..	..	..	..	..	1	1	..	1	..	3		
96.	Asthma	..	..	..	..	..	..	..	..	1	..	..	1		
Total Class IV		..	8	8	3	2	2	3	3	3	3	8	43		
V. DISEASES OF THE DIGESTIVE SYSTEM.															
100.	Disease of Pharynx	..	..	..	..	..	1	..	..	..	..	..	1		
102.	Ulcer of Stomach	..	..	..	..	..	..	..	1	..	..	..	1		
103.	Disease of Stomach	..	..	..	..	..	..	..	..	..	1	..	1		
104.	Diarrhoea and Enteritis	3	19	..	..	..	..	..	..	..	..	..	22		
105.	Diarrhoea and Enteritis	..	..	..	1	2	..	1	1	..	..	..	5		
108.	Appendicitis	..	..	..	1	3	..	1	1	..	..	..	6		
109.	Hernia	..	..	..	..	..	..	..	..	..	1	..	1		
110.	Intestinal Disease	..	..	..	1	..	..	..	..	..	..	..	1		
113.	Cirrhosis of Liver	..	..	..	..	..	..	..	..	..	1	..	1		
115.	Disease of Liver	..	..	..	..	..	..	..	1	..	1	..	2		
117.	Peritonitis	..	..	..	..	2	..	1	..	..	..	..	3		
118.	Disease of Digestive System	..	..	..	..	..	..	1	..	..	..	..	1		
Total Class V		3	19	..	3	7	1	3	4	1	3	1	45		

TABLE GIVING RATES PER THOUSAND POPULATION—MARRIAGES, BIRTHS, AND DEATHS FOR PAST SIXTEEN YEARS

Year	Population	Marriages		Births		Deaths	
		No.	Rate	No.	Rate	No.	Rate
1897	14,114	111	7.86	351	24.87	227	16.08
1898	14,634	95	6.50	277	18.93	218	14.89
1899	15,154	123	8.12	269	17.75	229	15.11
1900	15,674	110	7.02	330	21.05	284	18.12
1901	16,198	128	7.90	316	19.51	255	15.74
1902	16,722	134	8.01	311	18.59	257	15.36
1903	17,246	131	7.59	378	21.92	261	15.13
1904	17,770	125	7.03	338	19.02	286	16.09
1905	18,294	144	7.87	357	19.51	286	15.63
1906	18,818	155	8.24	404	21.47	298	15.81
1907	19,342	183	9.46	415	21.46	344	17.78
1908	19,866	131	6.59	429	21.59	330	16.61
1909	20,390	204	10.00	428	20.99	289	14.12
1910	20,921	190	9.08	497	23.75	318	15.20
1911	21,445	197	9.19	504	23.50	296	13.80
1912	22,000	181	8.23	494	22.45	298	13.55

NATIONALITY TABLE—MARRIAGES, BIRTHS AND DEATHS

Country	Marriages		Births		Deaths
	Grooms	Brides	Fathers	Mothers	
Austria-Hungary	3	4	16	19	3
Bohemia	0	0	1	1	2
Canada	2	1	2	3	0
China	0	0	1	0	0
Denmark	1	2	5	3	1
England	3	3	21	18	8
Finland	0	0	0	2	0
France	0	0	5	3	4
Germany	2	1	12	10	9
Greece	0	0	2	0	0
Holland	0	0	0	0	1
Ireland	7	9	24	31	22
Italy	23	21	63	61	5
Norway	1	0	2	1	0
Poland	1	1	6	6	2
Roumania	0	0	1	0	0
Russia	7	7	28	28	2
Scotland	3	4	4	5	4
Sweden	1	1	7	7	0
Switzerland	0	1	2	1	0
Syria	0	0	1	1	0
Turkey	1	0	0	0	0
United States	125	124	284	288	229
West Indies	1	2	4	6	1
Unknown	0	0	3	0	5
	181		494		298

Respectfully submitted,

HARRIET O. MATTISON,

Registrar Vital Statistics.

REPORT OF POOR AND ALMS COMMITTEE

Plainfield, N. J., December 30, 1912.

To the Honorable, The Common Council of the City of Plainfield.

GENTLEMEN:—We respectfully submit herewith the report of the Overseer of the Poor for the year ending December 31, 1912:

Receipts

January 1, 1912, balance.....	\$	422.15
Deposits by Overseer.....		450.21
Appropriation from General Fund for Improvements to Alms House		200.00
Taxes:		
Year 1911	\$1,800.37	
Contingent Fund 1910	292.05	
Year 1912	5,835.22	
		7,927.64
Transferred from General Fund.....		4,500.00
		<u>\$13,500.00</u>

Disbursements

Payments 1912 bills.....	\$	7,585.41
Payments 1911 bills.....		477.28
General Fund		5,000.00
Balance December 31, 1912.....		437.31
		<u>\$13,500.00</u>

Summary

Balance cash	\$	437.31
Uncollected taxes, 1912.....		1,664.78
		<u>\$2,102.09</u>

Balance for 1913 (no liabilities).....\$2,102.09

The expenses of this department for the year 1912 have been as follows:

City Alms House

Salaries	\$	550.00
Incidental expenses		34.76
Helper		171.00
Extra labor		28.20
Cook		194.00
Washing		78.00
Barber		56.10
Bread and Cake		301.20
Butter		115.40
Groceries		471.62
Meat and Fish		185.50
Disinfectant		57.00
Men's Clothing		18.00
Shoes and Hats		39.85
Hardware		28.82
Horseshoeing		22.35
Bedding		69.17

Women's Clothing, etc.	91.62	
Nursing	35.50	
Water Supply	31.00	
Coal	311.85	
City Farm	80.56	
Improvements and Repairs	227.00	
Ice	50.22	
		<hr/> \$3,248.72

Outdoor Relief

Provisions	\$ 817.65	
Rents	1,182.00	
Board and Care	586.52	
Fuel	138.95	
		<hr/> \$2,725.12

Office

Salaries:		
Overseer	\$ 800.00	
City Physician	400.00	
Typewriting	12.10	
Burials	45.00	
Stationery and Postage	10.86	
Printing	34.75	
Insane:		
Transportation	83.75	
Committal and examination	53.00	
Trolley fares in city	13.50	
Office furniture	55.72	
Telephone and telegrams	2.25	
Vermeule Lot	25.35	
Advertising for employment	3.40	
Cash expended in temporary relief	28.20	
Moving and storing furniture indigent families..	25.00	
City farm, fertilizer, seed, etc.	321.04	
Cash expended for board and care	43.23	
Paid by order of court from funds deposited		
1911-12	91.00	
Railroad fare and transportation	9.38	
Cab hire, express and incidentals	31.32	
		<hr/> \$2,088.85

Total disbursements\$8,062.69

Received and paid out under orders of Court\$ 671.85

Inmates Cared for at the City Alms House During the Year 1912

	Male	Female	Total
Inmates in City Alms House at last report, December 31, 1911	8	6	14
Number received at City Alms House during the year 1912	5	2	7
Total	<hr/> 13	<hr/> 8	<hr/> 21

Number disposed of during the year 1912.....	1	1	2
Number of deaths at City Alms House during 1912	4	1	5
Total	5	2	7
Total remaining in Alms House, Dec. 27, 1912	8	6	14

The following is a list of what was produced on the Farm for the year 1912:

124 lbs. Butter	12 Citron
5962 Eggs	3 bushels Plums
4 bushels Beets	4 bushels Pears
2 bushels Onions	300 bunches Celery
Lettuce	25 bushels Tomatoes
10 bushels Lima Beans	110 bushels Turnips
12 bushels String Beans	2000 ears Sweet Corn
4 bushels Corn Beans	174 bushels White Potatoes
50 Cucumbers	74 bushels Rye
25 bunches Radishes	700 bushels Corn
25 Watermelons	21 bushels Buckwheat
200 Small Scallop Squash	15 bushels Oats
5 bushels Peas	6 tons Hay
50 Peppers	3½ tons Rye Straw
100 bunches Asparagus	9 Pigs
50 bushels Sweet Potatoes	1 Calf
500 Pumpkins	2570 bundles Corn Stalks
1500 Cabbage	100 Chickens

No account kept of green onions, lettuce, kale and spinach.

All the milk used in the City Alms House for the year was produced on the farm.

The following is an inventory of the farming utensils, etc.:

1 Single Harness	3 Plows
1 Cart Harness	2 Harrows
1 Team Harness	1 Manure Spreader
1 Team Wagon	1 Corn Planter
1 Dump Cart	1 Seed Planter
1 Horse Box Wagon	2 Horses
1 Hay Rake	9 Pigs
1 Potato Digger	2 Cows
2 Cultivators	1 Heifer
1 Mowing Machine	1 Sweep Mill
1 Wheelbarrow	

ALMS HOUSE

The condition of the Alms House is fair; there are a number of things which could be done were its location considered permanent; the proposed change of location of the sewer beds makes it unwise to do anything permanent in the way of improvements.

With the \$200 appropriated from the general fund, an incline plane leading from the kitchen roof to the ground, with access to this roof from the men's quarters and the women's quarters, provides for escape in case of fire and also furnishes a means of getting those who cannot use the stairs out into the air. I very much hope that within

the next few years a County Alms House can be provided. The expense of maintaining an institution for the fourteen to twenty inmates of this alms house is large, but more important is the fact that in several instances different care is needed for the inmates. In a unit of two hundred, which perhaps would be the size of an institution which would care for all the alms house inmates in the county now, the necessary care required by each inmate could be far better given. Perhaps the greatest advantage of such an institution would be that those who can do light work could be made to do it regularly. It goes without saying that they would be far happier for regular employment suited to their ability. At present inmates of our alms house are doing some work, but it of necessity is not steady employment.

The City Farm has produced this year, in excess of its needs and that of the Alms House, produce valued at about \$500; \$374.36 has already been realized and the remainder is to be sold shortly. Last year I think that the amount realized from the sale of excess produce was \$519.67. I don't expect to quite equal this excellent figure, in view of the fact that the Superintendent is keeping for their own use a larger supply of produce than he did last year.

The City's interests at the alms house have been exceedingly well cared for by Mr. and Mrs. Culver, assisted by Mrs. Shiras and others.

Some of the pastors of churches of this city, more particularly the Baptist church of Dunellen, through its pastor and some of the members, have conducted church services on Sunday afternoons during most of the year. These have been greatly appreciated by all. Friends from the city have also given several enjoyable entertainments.

The comfort and happiness of the inmates which is so noticeable, and the excellent showing of the farm is largely due to Mr. and Mrs. Culver, and I wish to record my appreciation.

Outdoor Relief

Aside from a large number of consultatives and cases not requiring investigation, there have been fifty-six applications for relief. As a result of investigation sixteen applicants were refused. The other forty represented, in most instances, families.

Relief has been extended by way of paying rent, by orders on a choice of three grocers, by providing board and care in a few instances and also furnishing fuel. In the case of some families rent and provisions and fuel have been necessary.

Tabulated, the results are as follows:

Applicants relieved by	Rent paid	Provisions	Fuel	Board & Care
During year	20	30	18	17
Remaining at end of year	11	10	3	9

The following matters have also required attention:

Burials	3
Insane commitments involving expense to this department	9
Applicants referred to other municipalities	5
Court cases:	
Desertion	18
Bastardy	1
Grand jury	1

Children committed to State Board Children's Guardians.....	2
Hospital cases investigated	88

In this branch of the work the Charity Organization Society, Children's Home Day Nursery and many others which I do not mention for lack of space, including church societies and committees from some of the unions have helped me in dealing with many of the problems. They have saved the city a very considerable expense in many cases and have offered every co-operation.

Hospital Fund

Effective April 1.—The city and Muhlenberg Hospital entered into an agreement under the provisions of which the city paid one dollar per day for patients in the general ward and two dollars per day for patients in the isolation ward, where such patients were sent there by the city or where their presence and inability to pay was either at the time or subsequently recognized by me. An appropriation of \$3,500 was made by the city; \$2,317 has been paid under this agreement, and the amount due for the month of December is still to be paid. I believe that the results of this arrangement have been excellent. It has involved reports to me by the Hospital on every patient that they felt could not pay and an investigation by me before payment.

The one dollar per day represents only about 40 per cent. of the cost, and by this arrangement both the Hospital and city are evidencing their joint desire to supply necessary treatment for patients who cannot themselves pay. I trust a similar arrangement will be made for the next year, as there is no form of relief which I think the city should prefer to have available to its poor than such as is being supplied by the Hospital.

In conclusion I wish to express my appreciation of the work of my assistant, Mr. Dunham. I would also record my thanks to the Alms Committee and particularly Mr. Endress, its chairman, who has given his personal attention and a very considerable amount of his time to the work of this department. His experience and his knowledge of applicants and their antecedents has been of great value in the work of the department this year. To the Mayor and other members of the Council, the Chief of Police and many others whom I could mention if space permitted, I wish to extend my thanks for their uniform co-operation and assistance.

Respectfully submitted,

HENRY L. de FOREST,
Overseer of the Poor.

We call attention also to the report of the City Physician herewith submitted. It concerns chiefly the work of this department.

Respectfully submitted,

FRED ENDRESS, Chairman,
WILLIAM L. GLOAK
DUNCAN W. TAYLOR.

REPORT OF SHADE TREE COMMISSION

Plainfield, December 28th, 1912.

To the Honorable, The Common Council of the City of Plainfield.

GENTLEMEN:—The Shade Tree Commission presents the following report for the year 1912:

The work done by the Commission has been along the same general lines as in former years. The elm trees bordering the city's streets and avenues as well as on public grounds have been carefully sprayed with a solution of arsenate of lead, and, in consequence, have well withstood the attacks of the beetles, which apparently have come to stay with us, although it has been evident for the past two years that the numbers are each year being reduced, due in part to the systematic annual spraying, and in part, to the dying out of trees on private grounds that have not been regularly treated, thus removing the feeding grounds that are free from poison.

Considerable attention has also been given to the cottony maple scale that is again attacking the maples. Many trees have been sprayed and some of them scraped to destroy this scale. Many more need attention, and it is planned to push this work the coming year. The trees that are most susceptible to attacks of this kind are those that have become weakened in some way,—perhaps by want of food or moisture due to pavements being built too closely around the trunk of the tree, or it may be because the trees are so crowded that there is not enough moisture and food to supply all. A dressing of some good fertilizer underneath the tree would be of great help in such cases.

The work of thinning out the trees where they were overcrowded has been continued, and much more of this work needs doing. We have been greatly handicapped in this, however, by the opposition of abutting property owners. There is perhaps nothing that will better serve to beautify our thoroughfares than the removal of deformed and overcrowded trees and the proper trimming and care of those remaining so that they may develop symmetrically. All recognize the fact that we have too many trees and that they should be thinned out, but many people prefer that their neighbors' trees should be thinned rather than those in front of their own premises. A very large amount of work has been done in trimming trees this past year, and this work should be continued by taking one street after another until the whole city has been covered. The more important thoroughfares have already been done and many of the side streets as well.

We are pleased to note the continued and increasing interest of the citizens of Plainfield in the proper care of the trees in our midst.

The committee submits the following account of its receipts and expenditures for the year:

Receipts

Regular appropriation	\$2,500.00
Appropriation for care of Park	200.00
Sale of wood, spraying, trimming, etc., for private owners ..	80.50
Total	\$2,780.50

Disbursements

Care of City Park, spraying elms and maples, trimming, re- moving and cementing trees, etc.....	\$2,772.00
Cash balance on hand.....	8.50
Total	<u>\$2,780.50</u>

Respectfully submitted,

MILES ROBERTS,

P. S. SUFFERN,

Commissioners.

REPORT OF BOARD OF PLAYGROUND COMMISSIONERS

Plainfield, N. J., December 30, 1912.

"To the Honorable Common Council of the City of Plainfield.

GENTLEMEN:—The Board of Playground Commissioners herewith beg to tender its third annual report for the year ending December 31st, 1912.

Under the careful and satisfactory direction of Mr. C. R. Bostwick, Supervisor, the activities at Parker Field increased substantially during the past year, the attendance there being as follows:

May 1st to July 5th (55 days).....	2,000
July 5th to September 5th (51 days).....	7,391
September 5th to October 26th (44 days).....	1,655
Total	11,046
Estimated number of spectators at the various events held at Parker Field.....	7,500
Average attendance, July 5th to September 5th.....	145
Average attendance, May 1st to October 26th.....	73
Number of scheduled baseball games.....	145
Organizations using the field during the season.....	38
Number of tennis players, partly estimated.....	1,000

From May 1st to June 26th the apparatus was in use from 3 to 5 p. m., in charge of Irving Schenck; from May 1st, on all Saturdays, from 9 a. m. to 12 m., and from 2 to 5 p. m.

The game of tennis has been enjoyed by such a large number of persons at the Parker Field during the past season that it is necessary, if possible, to build two additional courts next year.

Herewith is also submitted report of H. E. Parker, Secretary of the Commission, for the year 1912, as follows:

School Playgrounds

It is a great satisfaction to note that there was a large increase over 1911 in the number of children attending each playground this year, in spite of the fact that the attendance of many boys was naturally diverted to Parker Field. Attendance figures are given for both 1911 and 1912.

Bryant Playground was open 49 days in 1911 with a total attendance of 7,373 children, average daily attendance of 150. This year it was open 46 days with a total attendance of 7,228, average daily attendance 158.

Franklin Playground was open 54 days in 1911 with a total attendance of 5,596 children, average daily attendance 108. In 1912 the same ground was open 50 days with a total attendance of 8,588, average daily attendance 171.

St. Mary's Playground was open 51 days in 1911, with a total attendance of 4,816, average daily attendance 95. This year it was open 47 days with a total attendance of 4,814, average daily attendance 102.

Irving Playground was open 53 days in 1911 with a total at-

tendance of 12,411, average daily attendance 234. This year it was open 49 days with a total attendance of 12,906, average daily attendance 265.

The grand total attendance for 1911 was 30,196; for this year it was 33,596. The daily average attendance for 1911 was 587; for 1912, 699.

Supervision

The supervision at every ground has been most efficient. To the performance of the difficult task of directing the play activities of large groups of children of different ages, races and temperaments, our supervisors have brought rare consecration and thorough preparation. It is to be doubted if five persons better qualified for their work could have been chosen than the Misses Moe, Sherwood, Hayes, French and Shephard. Special mention in this connection should be made of the janitors at the different schools, all of whom rendered valuable assistance.

Program

A larger place in the program of activities, than in other years, was given to folk-dancing and to industrial work. The effect was to enable the supervisors to keep a much larger number of children interested.

Results

Through the Playground Commission, the City of Plainfield is supplying wholesome and healthful recreation during the summer months to hundreds of its children. By doing this, the city is not only preventing weakness, vice and disease in the men and women of tomorrow and thus insuring the continued soundness of its own life, but its operation of playgrounds also causes the child to think of the city as its benefactor and thus teaches a powerful lesson in patriotism. From these points of view, the value of the playground as a training-school for citizenship cannot be overestimated.

H. E. PARKER, Secretary.

The report of the Treasurer is also herewith submitted, showing balance on hand December 31, 1912, of \$1,493.70, which report is as follows:

TREASURER'S REPORT, YEAR ENDING DEC. 31, 1912

Receipts

1912

January 1, balance on hand.....	\$2,527.11		
January 9, interest on deposit.....	\$ 10.17		
April 29, interest on deposit.....	18.06		
July 26, interest on deposit.....	15.51		
October 30, interest on deposit....	4.50		
December 5, City of Plainfield, appropriation	1,500.00	1,548.24	\$4,075.35

Disbursements

Parker Field:

J. D. Loizeaux Lumber Co.....	\$ 9.30
Henderson & Co.....	3.00
H. H. Craig.....	94.35

CITY OF PLAINFIELD

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Knox Fence Co.....	26.70	
A. M. Griffen Co.....	128.14	
Albert Naylor	75.00	
George Petringer	3.50	
Jose Aniel	42.00	
Ternay Bros.	42.50	
Shirley & Johnston	8.00	
Alexander Milne	12.46	
M. F. Higgins	23.00	
Michael Rimmer	77.64	
Plainfield-Union Water Co.....	18.75	
Patsy Aniel (caretaker).....	350.00	
		914.34
School Janitors:		
Jesse Scull	54.00	
Frank Kelso	50.00	
Peter McShea	50.00	
Henry W. Fraleigh	50.00	
		204.00
School Supervisors:		
Harriett E. Moe, Bryant.....	168.00	
Loretta H. Hayes, St. Mary's...	140.00	
Jeannette Sherwood, Franklin..	140.00	
Louise S. French, Irving.....	159.32	
Mary Shephard, Irving.....	53.32	
C. R. Bostwick, Parker Field....	300.00	
Irving Schenck, Parker Field....	19.50	
		980.14
Secretary to Commission:		
H. E. Parker, salary 1911, unpaid	100.00	
H. E. Parker, salary 1912.....	100.00	
		200.00
Supplies:		
F. W. Woolworth Co.....	14.25	
Schermerhorn & Co.....	39.15	
Alex. Taylor & Co.....	14.63	
Mulford Estil	1.80	
E. A. Laing.....	.80	
H. W. Marshall.....	6.98	
A. E. Force & Co.....	1.58	
		79.19
Cartage:		
Hoagland's City Express.....		8.00
Printing, Stationery and Postage:		
The Associated Offices.....	21.40	
Playground Asso'n of America..	5.00	
Courier-News Publishing Co.....	41.25	
H. W. Marshall (postage).....	2.54	
		70.19
Miscellaneous:		
H. E. Parker.....	11.65	
R. G. Bush.....	35.55	
Boice-Runyon Co.....	62.56	

P. B. Hodge.....	6.00	
J. C. Hansen.....	10.03	
	<hr/>	125.79
Total Disbursements	\$2,581.65	2,581.65
Balance on hand Dec. 31, 1912..		<hr/> \$1,493.70

Respectfully submitted,

H. W. MARSHALL, Treasurer.

The foregoing figures illustrate the importance of the playground work in our city.

Although the school playgrounds and Parker Field have only been in use three years, it is clearly demonstrated that good work is being accomplished.

The members of the Board of Playground Commissioners having the responsibility of the success of this work are deeply interested in the same, and are hopeful that another year will bring our playgrounds and Parker Field into still greater popularity with the youth of our city.

It is the intention, if possible, to eventually have Parker Field a recreation ground for even those not participating in sports.

Another winter arrangement should be made for skating there.

Additional features for out-door life and recreation will depend upon our Mayor and Common Council lending their assistance in favoring such appropriation as is necessary to carry on this very important work.

Respectfully submitted,

GEO. P. MELLICK, Chairman.

LINDSEY BEST,

H. W. MARSHALL,

CHAS. B. MORSE,

GEO. L. BABCOCK, JR.,

Board of Playground Commissioners.

REPORT OF PUBLIC LIBRARY

To the Honorable the Common Council of the City of Plainfield:

GENTLEMEN:—The Board of Directors of the Plainfield Public Library and Reading Room pursuant to the provisions of law in that behalf hereby make this their annual report, stating the condition of their trust on the first day of June, 1912.

The following, showing the receipts and expenditures of money verified by the affidavit of the Treasurer, exhibits the sums of money received from the Library Fund and from other sources and how such moneys have been expended and for what purpose.

Annual Report of the Treasurer of the Plainfield Public Library and Reading Room for the year ending May 31, 1912:

The number of volumes in the Library May 31, 1911, was.....	37,635
Volumes added by purchase during the year.....	1,762
Volumes added by gift	526
Volumes added by binding	55
Volumes added (musical scores)	92
Volumes added by exchange	5
Total number of volumes in Library, May 31, 1912	40,075
To these should be added volumes in Babcock Library	9,123
To these should be added volumes in Mason W. Tyler Library.	699
Making a total of	49,897
Less withdrawals	2,750
Actual total	47,147

There were 190 additions to the Babcock Library during the year.

There were 85 additions to the Mason W. Tyler Library during the year.

Number of periodicals regularly received

Number of card holders

Number of visitors to the Library building

The circulation of books and the general character and kind of books loaned have been as follows:

Subject:

Fiction	36,881
Juvenile	16,798
Biography, Correspondence, etc.	2,357
Philosophy	703
Religion, Mythology, etc.	1,277
Sociology	2,793
Philology	146
Natural Science	1,551
Useful Arts, including medicine	2,255
Fine Arts	4,550
Literature	3,688
Description and Travel	2,980
History	3,189
General Works, Periodicals, etc.	2,816

Total circulation

Increase over last year

Respectfully submitted,

The Board of Directors of the Plainfield Public Library and Reading Room.

(Signed) ALEXANDER GILBERT,

(Signed) W. M. STILLMAN, Secretary.

President.

REPORT OF THE TREASURER OF THE PLAINFIELD PUBLIC LIBRARY AND READING ROOM FOR THE YEAR ENDING MAY 31, 1912

General Library

Receipts

Taxes	\$ 7,414.84	
Interest	114.63	
Amount refunded from Plainfield Public Library Building account	2,543.07	
Petty Cash Receipts:		
Fines	\$ 538.54	
Non-resident subscriptions .	62.00	
Catalogs	8.10	
Replacing lost or injured books	27.20	
Received from telephone, private calls .....	.95	
Received from Babcock ac- count	37.78	
		674.57
Total receipts		\$10,747.11
Balance on hand, May 31, 1911		5,308.93
Aggregate		\$16,056.04

Disbursements

Salaries:		
Librarian	\$ 960.00	
Assistants	1,600.00	
Janitor	480.00	
		\$3,040.00
Books		2,367.27
Subscriptions to periodicals		333.75
Binding		403.67
Stationery, postage, printing, etc.		71.35
Fuel		340.65
Lights:		
Lamps	\$ 18.30	
Amount consumed monthly	311.83	
		330.13

Repairs	669.79
Insurance	227.25
Library fittings	206.65

Sundries:

Telephone \$	34.20
Assistant janitor	56.00
Janitor's sundries	44.55
Water	19.00
Rent of safety-box	10.00
Librarian's expenses attending Library meeting	13.50
Advance payments on new building (Note. — First payment of \$300 was made last year)	2,243.07
	<u>2,420.32</u>

Total, general fund	\$10,410.83
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Petty Cash Disbursements:

Sunday service and other assistance	3.75
Books	79.59
Subscriptions to periodicals	12.68
Stationery, postage, supplies, etc.	104.04
Repairs	34.50
Express	51.58
Sundries:	
Expenses at Industr'l exhibit \$38.96	
Expenses at Welfare exhibit	2.10
Ice during summer	7.24
	<u>48.30</u>

Total, petty cash	334.44
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Total disbursements	\$10,745.27
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Balance on hand, May 31, 1912	\$ 5,310.77
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Babcock Income Account

Receipts:

Rents, Madison Avenue property	\$1,128.00
Balance on hand, May 31, 1911	368.64

Aggregate	\$1,496.64
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Disbursements:

Books \$	75.32
Subscriptions to periodicals, and rounding out incomplete sets	277.18
Binding	169.40
Repairs, Madison Avenue property	445.11
Sundries:	

Petty cash and general Library disbursements	89.83	
Total disbursements		1,056.84
Balance on hand, May 31, 1912	\$	439.80

The Mason W. Tyler Income Account

Receipts:

Interest on mortgages:		
Mr. Edwards	\$ 250.00	
Dr. Murray	250.00	
		\$ 500.00
Balance on hand, May 31, 1911		9.53
Aggregate		\$ 509.53

Disbursements:

Books	\$ 407.33	
Sundries:		
Petty cash and general Library disbursements	14.91	
Total disbursements		422.24
Balance on hand, May 31, 1912	\$	87.29

Mrs. G. H. Babcock Catalog Fund

Receipts:

Interest on bank balance	\$ 29.73	
Balance on hand, May 31, 1911		1,035.75
Amount on hand, May 31, 1912		\$1,065.48

Plainfield Public Library and Reading Room, Building Fund

Amount of Carnegie check deposited May 16, 1912	\$7,500.00	
Disbursements:		
Plainfield Public Library and Reading Room, covering all advance payments . .	\$2,543.07	
W. H. Fissell & Co. First payment on acct. .	4,870.50	
Total disbursements		\$7,413.57
Balance on hand, May 31, 1912	\$	86.43

Respectfully submitted,

(Signed) J. HERBERT CASE, Treasurer.

June 1, 1912.